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Market

Vol. XLII.

No. 3

MARCH 5th, 1941

Price 6d.

Special Articles This Month

Apple and Pear Acquisition Letters to the Editor South Australian News and Notes **Grape Juice Investigations** Victorian News and Notes Poultry, and Pig Notes

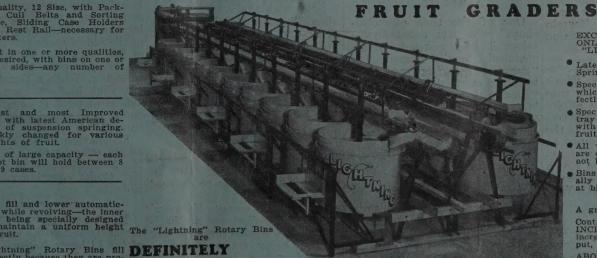
Market Grower Section Dried and Canned Fruit New South Wales The Goulburn Valley, Vic. **Motor Notes** News from Tasmania

Conterence of Victorian Central Citrus Association

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Extract from "BETTER FRUIT," by Dr. R. L. Webster, Entomologist, State College of Washington, Pullman: CODLING MOTH COVER SPRAYS—"Ever since the imposition of an arsenic tolerance in 1926, and even before that time, investigators have been testing other materials which may be used in place of lead arsenate. Following all these intensive and extensive investigations lead arsenate appears to have certain inherent qualities which place this material foremost as an insecticide for coddin moth control."

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PITHY BITS

By "Gad-about"

Crises of Life

Crises is the plural of crisis dictionary meaning of crisis is "turning point." The war is now approaching its crisis. The moment is surely coming when Hitler will let loose all the vomits of Hell, and the British Empire, in meeting them, will rise to heights it has never yet known

The tree that has grown grafted on to the sturdy British stock in death will take on a new life —new vigor—new force. The —new vigor—new force. The fruit which it will bear will be fuller flavored, richer colored and better fibred than any it has

Strangely enough it is not the big crises that one of our stock fail in, but it is the smaller "turning points" which catch us

I suppose that marriage is a crisis for most of us, and death another, and so are Tomato gluts and strikes, Acquisition Boards, and so are droughts.

What an extraordinary anomaly it is that a race which could colonise Australia, a race which has led in world affairs for centuries—the most extraordinary creation of nations the world has yet known, having as its centre that stout, unbreakable little Island in the North Sea should leave the problem of Sea, should leave the problem of fruit marketing unsolved. Why is it thus?

Tomato Crisis.

"Gad-about" wishes the growers good luck. 2/3 per case and pay freight and supply cases could not pay one-quarter of a minimum wage. No wonder the growers refuse to sell. Is there to be another Board? A Board for everything and we are bored with Boards. "Gab-about" says "Go ahead, Tomato growers, and fight for your rights and stand firm."

The soft fruit season is comand life is full of them. The ing to an end with crops ample,

> and then leave it to the grower to do the best he can for himself? The reply is, of course, that when fruit is bad in condition and faulty you can get something for it, and something is better than nothing, but on the other hand much of the waste which now occurs through delayed selling, bad packing and faulty growing would not occur if bad fruit became unsaleable by the fixing of a minimum

A Joke on "Gad-about," or was It?

One of the sons of "Gadabout" who has enlisted was taken ill and a telegram despatched hastily announcing "Tom sick here," but when the telegram arrived it announced "Tom shick here." This son of "Gad-about" is a rabid teetotaller and prohibitionist, which added to the humor of the misadded to the humor of the mistake—or was it.? How is that for a Government job?

Producers Make Fortunes.

"Gad-about" heard recently of the wealth being made by some producers. I am afraid it is too good to be true. I am reis too good to be true. I am reminded of a letter which appeared in the daily press some time ago discussing the issue as to whether poultry keeping paid. The letter writer claimed, in all seriousness, that he had 42 hens which laid 41 eggs per day for the whole of the year and then went on to show that poultry keeping did pay. In the next issue of the paper there appeared

a letter signed "Next Door Neighbour." He too kept fowls, but eggs were the exception, not the rule. He could not see how his neighbour could get such results, so he thought he would go down to his poultry run and talk to his hens about it. He then discovered hidden behind a bush a hole in the fence between him and the neighbour who had him and the neighbour who had the crises which may arise out made poultry keeping pay. He of the episodes. watched his hens and they, with hardly an exception, went in good day!

Young Farmers' Clubs

Scholarship Granted.

A three-year scholarship has

A list of past members of volume Farmers' Clubs is now beroung Farmers Clubs is now being compiled of men on active service with the A.I.F. Names should be sent to the Association's office at 422 Collinsstreet, Melbourne, C.1.

A club is being organised at Boort, where a pasture competition for the Norman Martin Shield will probably be entered upon.

A Senior Young Farmers' Club is being discussed at Charl-ton. The Agricultural Society

consider the provision of a dam to supply water for their pas-ture plots. Tresco members have erected

been awarded to Robert H. Ducat at either Dookie or Longerenong Agricultural Colleges under an award provided by the Council of Agricultural Education.

A list of past members of Ducate a fruit drying shed by working bees. Donations of building material helped and there is now a scheme to add a dipping plant. For the first season this club will pick fruit from their own plats.

Associated with the Lake Boga School are pasture plots and several rows of vines. During the year the senior members of the school made careful study street, Melbourne, C.1.

At the Farmers' Convention to be held at Bairnsdale, commencing on April 21, Young Farmer Club work will be featured. Reports and displays will be submitted by Victorian Clubs.

A club is being organised at the school made careful study of the plots and were assisted, especially in pruning, by district residents. While a Young Farmers' Club has not been formed yet, good work is being carried on in the extension of agriculture at the school.

Shepparton East Y.F.C. elected its office-bearers: President,

ed its office-bearers: President, M. Swainston; Vice-President, H. Cook; Secretary, Shiela H. Co Ebbott.

Club is being discussed at Charlton. The Agricultural Society is also being recommended to appoint young judges on its committee.

Miss L. Giles, a new teacher at Lake Marmal, is keen on Young Farmer work and will be supported by parents and local farmers. At Knowsley and Toolleen sheep and wool are at present the main interests. Longlea Club is ambitious enough to demonstrated at the model farm of the Lithgow Junior Farmers' Club by Mr. T. McCracken. After the sheaves have been retted they will be allowed to dry, when the fibre will be extracted.

The junior farmers have three varieties growing at the farm, Liral Crown (the standard type), Giza Purple (intermediate), and Blue Riga Club is ambitious enough to The harvesting of Flax was

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QUEEN CARNIVAL.

In Aid of Red Cross and Comforts Fund.

Primary Products Queen Takes

Interest is increasing in the Queen Carnival in Victoria. Ten sections have each selected a Queen. The Primary Products Queen is Miss Strella Wilson, the well-known singer. When the voting opened the Queen of Essential Services headed the list but the Queen of Primary list, but the Queen of Primary Products quickly forged ahead from fourth to top place. Votes from fourth to top place. Votes are 1d. each. If each of the 10 Queens raises £5,000, the needed Queens raises £5,000, the needed £50,000 will be secured for the Red Cross and Comforts Fund (equally divided). The winning Queen will be crowned at the Melbourne Cricket Ground at the end of March. Fruitgrowers can contribute through their cool stores or other organizations. The Organizing Secret tions. The Organizing Secretary is Mr. J. D. Porter, 524 Collins-street, Melbourne.

WHY SHOP THERE?

Retail fruit stores can take a lesson from the reasons given by a lady who passed one store to purchase at a store further away. Here is the reason given: "Why do I go there? It isn't price....

"But his store is always so clean and nice.

"Everything handy . . . open display... "I can help myself . . . there's

no delay.
"No baskets, boxes or junk on

the floor,

"It's a pleasure to shop at a wellarranged store!'

BRITAIN'S INCREASED FOOD PRODUCTION.

24-Hour-a-Day Job.

OT ONLY are the British Government, Board of Trade, Ministry of Agriculture and other official bodies working hard in a supreme effort to feed the nation, but the people of Britain are wholeheartedly supporting the authorities

In addition to a definite move to increase exports, attention is given to increased primary production. It is reported that 2,000,000 additional acres are being brought into cultivation in

Day and night this work goes on, dependent upon weather conditions. Tractors are being extensively used and the work goes on by relief armies who operate with the aid of powerful

headlights on the machines.

The women of England are again wonderful in the work they are doing. The younger generation, "Farmerettes" so designated, are learning cultivation, fruit culture, poultry husbandry and many other avenues of agricultural service.

The enthusiasm with which

all workers are meeting the unusual demand has never been

exceeded.

CORRECTION OF NAME.

In our report of the Tomato Field Day at Tatura, Victoria, in last issue, we quoted Mr. W. Gayford, assistant to Mr. F. M. Maher. as attending. This Maher, as attending. This should have been Mr. W. Gayfer, Field Research Officer, and not Mr. Gayford of the Melbourne office of the Department of Agriculture. We regret this error.

OBITUARY.

Western Australia, recently of a well-known Bridgetown resident, Mr. F. E. S. Willmott. Born in England in 1870, Mr. Willmott came to Australia in 1887, and had varied experiences in gold prospecting, dairy farming, Government Supervisor of road-making and forest ranger. About 38 years ago he took up his property "Applewood," and has been there ever Western Australia, recently of

since. During that time he has The death occurred in Perth, in both Houses, Minister for Lands and Agriculture and Lead-

Letter to the Editor

The Editor, "Fruit World and Market

We were very interested to read the item "Dont's in Spray-ing" on page 6 of February 5 issue of the "Fruit World and Market Grower."

one another, and further, that oil and sulphur sprays and oil and acid lead arsenate sprays should not be used in combination. During the long period of years in which we have been marketing spraying oils, a con-

tion, particularly as they relate to Australian conditions.

There are, for instance, several grades of mayonnaise spraying oils available on the Australian market which are used efficiently and successfully ing" on page 6 of February 5 issue of the "Fruit World and Market Grower."

We would like to comment on the "Dont's" which state that oil and sulphur sprays should not be used within 14 days of one another, and further, that oil and sulphur sprays and oil and acid lead arsenate sprays should not be used in combinations can and are be
used efficiently and successfully in conjunction with lime sulphur. The time of application of the combination sprays is restricted of course, usually from true dormancy to the early pink tip stage with Apples, depending on the type of oil and the concentrations used. The fact remains, however, that such combinations can and are being used.

We often wonder how long it is since the origin of the theory siderable amount of experience that oil and lime sulphur sprays should never be used in close that the "Dont's" issued by the New Zealand Department of Agment does not seem to be subriculture need some qualifica- stantiated in fact, although we

conditions under which it is dangerous to use these sprays at close intervals. We are reasonably sure, however, that the authors of many of the statements have never themselves experimented with the sprays, but have relied very largely on the opinions expressed by some-body else. As this matter is an important one, however, we may be able to throw more light on the question at some time in the

On the question of the combination of Whitespray with acid lead arsenate, we might mention that one of our recommended codling moth grammes has, for years, based on such a combination, and when making this recommendation, it was realised that virtually the whole of the lead arsenate sold in Australia is of the acid type. The Victorian Department of Agriculture recompared a similar combination similar

sprays for certain districts, while the addition of one gallon of Whitespray per 100 gallons lead arsenate mixture for codlead arsenate mixture for cod-ling moth control is advocated by the New South Wales Depart-ment of Agriculture. This lat-ter recommendation is, in fact, embodied in your article "Fruit Pests and Sprays" on page 5 of the same issue.

The above is written in the hope that the comments made will be of value and, as our policy is in line with your own—that is, of maximum assistance to the growers, whether given di-rectly or indirectly—we hope that you will call on us for any service which we may be able to

Yours faithfully, For the Shell Company of Australia Ltd.,

(Signed) F. E. KING. 17/2/41.

APPLES IN BREAD.

Another Use for Surplus Fruit.

HE USE OF APPLES in bread-making is reported upon by J. G. Mallock in "Scientific Agriculture." Three methods of use with flour are

In the first place an Apple sauce was employed cooked until sauce was employed cooked until all the added and part of the natural water had been evaporated. In the second experiment, what is known as Apple pomace, that is, the dried flesh after the juice has been pressed out, was used; and in the third the juice extracted during the pressing was added to the dough.

It is rather interesting to report that the addition of the raw Apples gave much larger loaves than the cooked fruit and all gave larger loaves than when no Apples or Apple juice was added at all. Where the Apple juice was added a much whiter loaf was produced which kept better than the loaves to which no Apple juice had been added. The addition of Apples in any form to the flour when making bread does add a very pleasant bread does add a very pleasant flavor, and the toast from such bread is particularly palatable.

Apple bread may easily become a speciality of the war and should prove popular to the public and profitable to the baker.

APPLES FOR COWS.

Recent tests in U.S.A. show that sliced or chopped Apples are good feed for cows. The dry matter of Apples has apdry matter of Apples has approximately the same feeding value as good Maize silage. Twenty lb. per day is recommended as an "appetiser"—after milking, so avoid any abnormal flavor in the milk.

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THE CITRUS INDUSTRY

Victorian Citrus **Association Conference**

SUCCESSFUL YEAR REPORTED - 1940 A YEAR OF RECORDS -PUBLICITY PROGRAMME APPRECIATED — QUESTION OF FUTURE PLANTINGS.

Temple Court, Melbourne, on February 12, when Captain D. B. Halhed presided over a representative gathering which included the following delegates:

R. D. Hollins (Red Cliffs), S. P. Terder (Cycles) R. D. Hollins (Red Cliffs), S. P. Taylor (Curlwaa), P. Rossiter (Ngawe), L. F. Edwards (Cobram), P. Cobbett (Bamawm), H. Wormwell and A. E. Cameron (Mildura), D. J. Walters (Murrabit), and W. Sawyer (Coomeealla), Messrs. A. W. Schwennesen, general manager, and G. E. K. Kerr, market manager and publicity officer represented the Control Citrus Association. Mr. Central Citrus Association. Mr. J. L. Provan attended, representing the Department of Agriculture, and Dr. S. J. Cantor was the guest speaker.

In reviewing the activities of the Association, Capt. Halhed stated that the past year had been one of records. Agents at Melbourne had handled a record quantity of fruit. The quantity sold to N.Z. constituted a record since the lifting of the embargo, and this despite the fact that they were unable to sell any Navels. Factory sales were of greater volume than ever before. Factory Lemon prices reached an all-time high level, and the factory Orange In reviewing the activities of

E 20TH ANNUAL conference of Victorian Citrecord proportions at reasonable rus Growers was held at prices. The publicity service prices. The publicity service was also supported by all other growers' organizations, even though they are not wholehearted supporters of the Association.

Continuing, Capt. Halhed

"In connection with the increasing production in Victoria and S. Aust. and the increased quantities of fruit which the Melbourne market may have to absorb in future, an aspect which is causing uneasiness is extent to which some of our Southern districts are being forced to seek other outlets for much of their fruit. Fortunately during their fruit. Fortunately during the past year there was a light crop of Oranges in N.S.W., and this enabled growers in these districts to dispose of big pro-portions of their crops in the Sydney market at prices con-siderably in advance of those they would have been able to obtain in Melbourne.

"Whether this same opportunity is likely to exist when we strike our next big crop year is a matter for speculation. There prices reached an all-time high level, and the factory Orange price was certainly the highest that has been obtained in recent years.

Value of Publicity.

The publicity service played a big part this year in assisting of a matter for speculation. There seems to be little doubt but that production in N.S.W. is declining. If this is so, the practicability of arranging an extension of our organised services to cover the Sydney market is a question which deserves investigation. The matter is, however, one that calls for interstate co-operation.

"With regard to the further development of the industry, the question of further plantings is receiving some attention ings is receiving some attention in the Mildura district and in S. Aust. Furthermore, when the war is over and returned soldiers have to be repatriated, the Governments will turn their attention to the possibilities offered by land settlement.

"The questions of whether there is room for expansion of this industry, where further plantings should take place, vitally affect those at present engaged in citrus production.

"It is our intention to introduce this as the principal subject for discussion when we next meet representatives of organizations in S. Aust. and the M.I.A.—probably in April of this year; everything possible will be done to prevent a recurrence of the mistakes of the past."

Marketing Report.

Mr. G. E. K. Kerr, market manager, made a report upon the Melbourne market in which he stated that the chief characteristics of the Navel crop was the preponderance of very small sizes. Owing to the cumulative effect of the Association's publicity, the additional quantity of fruit received did not prove beyond the capacity of the Melbourne market to absorb at better prices than were received in 1938, the aggregate wholesale value was higher than in 1939, and the average quality was of better average size compared with 1938. Valencias were below the average quality and condition of the early consignments.

Question of Further Plantings. | provided the biggest aggregate yield in these areas in the history of the industry. Abnormal weather conditions during the critical growing periods in the last three seasons have been responsible for the widest fluctuations in yield for the districts whose main outlet is the Melbourne market. The previous record crop was in 1938, and progress reports would indicate that 1941 will continue the alternation in yield, the prospects being for a light crop. The greatest increase in these areas last year was in South Australia. The aggregate Mildura crop was only a little heavier than in 1938 and in some of the other areas the 1938 total was not reached. Net wholesale arrivals, after deducting factory, export, private sales and transhipments during the period compare as follows with the three preceding seasons:-

> Arrivals at Melbourne: During 1940, 583,000 bushels were received in Melbourne market. The origins were: S.A. 310,000 bush., Mildura area 204,000 bush., Mildura area 204,000 bush., other Vic. areas 61,000 bush., N.S.W. and Queensland 8,000, of which Association agents handled 64 per cent. This total compared with 386,500 bush. in 1939, 480,700 in 1938, and 400,500 in 1937.

Effect of War News: To add to the difficulties of marketing pale and small Oranges, news from the war zones in Europe exercised a depressing effect on trade in the early part of the season. As the war spread the status of a big section of retail distributors came into question, and for a period many retailers of foreign race or descent were too unsettled as regards the future to purchase their normal requirements Although expanded war work reduced the num-Record Murray Area Crop: ber of unemployed, enlistments for military service lowered the crop since 1929, in the Murray spending powers of many famicitrus areas, the 1940 season lies, and there was a call on

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South Australia: George Wills & Co. Ltd., Gilbert House, Gilbert Place, Adelaide. Westera Australia: F. H. Faulding & Co. Ltd., 313 Murray Street, Porth.

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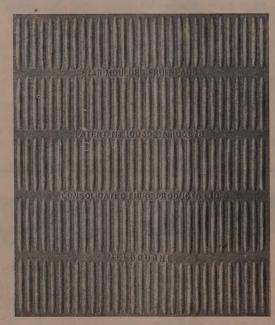
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every citizen to save for the ad-'mand much support in some ditional war effort. To meet the areas, it has an effective control situation the general advertising of more than 80 per cent. in the out of a specially augmented districts supplying the bulk of fund was begun much earlier the main season fruit. This conthan usual. The one favorable circumstance at this stage was that vegetables were available at prices that enabled the average housewife to obtain her requirements for a sum that left an appreciable margin for the purchase of Oranges and other fruits. By mid-season, the mar-ket had settled down to normal.

Although complete satisfaction with the present system cannot be quoted, the present system of selling and distribution is reasonably satisfactory and should be carried on until or unless it is practicable to change the method. Mr. Walters suggested that the Association should study all angles with a should study all angles with a view to effecting improvements. Mr. Cameron moved that the conference expresses appreciation to accredited agents for the excellent job which they did in handling the record crop in the past season. Carried.

Publicity.

Mr. Kerr tabled a report upon publicity which showed that £1,590 had been expended as compared with £1,129 in 1939. Of this, only £10 could be questioned as one piece of literature designed for Italian retailers was withdrawn upon Italy entering the war. The main items of expenditure included newspapers £618, radio £372, hoardings £226, posters £164, and research £58. He submitted that the increased expenditure was war-ranted by results and that this department should be carried

Publicity Publicity expenses were largely met by contributions amongst which were: Murray Association £400, Queensland £33, Murrabit £100, Cobram £123, Barham £40, smaller donations £105, and V.C.C.A. levies £706. The Association is planning new eventual of publicity. expenses ning new avenues of publicity during the coming year.

Average Prices.

The following average prices, by varieties, all grades and sizes received from Victoria and and the past four years com- 11,322,000 boxes. pared:

Navels (56.2)

When it is considered that in pre-organisation days, bourne, with 75 per cent. of its present population, could not absorb, without serious disloca-tion, 300,000 bushels of Oranges from all sources, the benefits of organised market can be appreciated. Although, by reason of its voluntary basis, the marketing organisation does not com- Grapefruit seeds.

trol enables it to stabilise the general citrus market position in view of the competition be-tween all sections of the wholesale trade for supplies. Such a result would not have been possible without standardised grading according to the trade requirements; the maintenance of supplies in accordance with the volume of the crop; the control of prices to ensure stability of purchasing and confidence in forwarding; publicity to encourage increased consumption; the cooperation of the Association's wholesalers on the market; and the active support of growers, packers and district and central association executives.

Exports to New Zealand.

During 1940 a total of 193,482 cases of citrus were shipped to N.Z. This was less than in 1939, except for Grapefruit. Of this total V.C.C.A. supplied a substantial increase on the previous year, in fact a record contribution by the Association. The figures for all citrus exports to N.Z. were:—

Grape-Or'ges Lem. fruit 89,491 2,287 1,676 69,337 637 578 N.S.W. S. Aust. Victoria 28,569

Total, 1940 187,397 2,924 3,161

Total, 1939 215,560 7,943 2,997

The quality was well up to standard and no complaints were registered regarding condition upon arrival.

Cases: Owing to the difficulty in obtaining $1\frac{1}{2}$ bushel export cases, bushel cases were permitted for a time. A resolution was adopted that the conference approves of the use of bushel cases and will endeavor to secure the approval of New Zealand for this size for export shipments.

California produced 24,640,000 boxes of Valencia Oranges in 1939, the third largest crop in border areas from April to December, 1940, is shown, with the percentage of fruit handled 11,700,000 boxes. The best by the Association in brackets previous crop was in 1938, with

1940 + 1939 + 1938	1937
7/7 / 8/- 6/11	7/-
8/8 10/6 7/9	7/9
12/2 $8/9$ $6/9$	6/4
10/6 $10/3$ $8/3$	7/4
6/5 $8/7$ $6/5$	5/10
8/3 12/11 9/4	8/7

(Citrus Notes continued on page 21.)

Officer (to couple in parked car): Don't you see the sign,

"Fine for Parking?"
Driver: Yes, officer. I and heartily agree with it.

A citrus laboratory has been successful in extracting oil from

Apple and Pear Acquisition

"A War-time Necessity," States Assistant Minister for Commerce

LOSS OF EXPORT MARKETS AFFECTS OTHER INDUSTRIES ALSO.

In a broadcast speech from campaign, the Assistant Minister for Commerce, Mr. H. L. Anthony, stated as follows:-

In the years before the war, we were able to export that porwe were able to export that portion of our primary products which we could not use ourselves. More than 90 per cent. of Australian exports went to the United Kingdom. Huge quantities of meat, dried fruits, wine, eggs, butter, bacon, cheese and fresh fruits were annually shipped overseas.



Mr. H. L. Anthony, M.P., Assistant Minister for Commerce.

From the proceeds of such sales abroad we have been able to establish funds in London, a National C edit Account. This enabled us to meet our international commitments and to pay for the large volume of manu-factured goods which our needs required us to import.

This disposal of our surplus clears our home market of excess supplies, for glutted markets are ruinous to primary producers.

Apples present one of our most immediate and acute problems.

Wine is another. When I think of the wine problem I do not visualise merely liquid in bottles and barrels. I think of thousands of acres of vineyards in different parts of the Commonwealth—of vines heavily laden with Grapes. There are more than a thousand returned men settled there with wives and men settled there with wives and children. In peace time almost half of Australia's wine was for export.

To-day that export of both wine and Apples to U.K. has completely ceased. Other exports, such as mutton, lamb and pork have had their quotas further reduced.

Britain needs foodstuffs, but we have not enough ships to be a high one—but under the send everything she used to circumstances, it is a fair one.

She needs all the butter we can produce, cheese, bacon, dried eggs, dried milk, and beef. With mutton we have a surplus in Australia which it is not possible to export: there is no oversupply of beef.

Sydney to launch the 1941 Apple more of our own fine fruits. We than we do. produce in Australia an average crop of about 11 million bushel cases of Apples every year. Tasmania has an annual crop of about 4½ million bushels. About 25 per cent, of the entire income of Tasmania comes from Apples. Throughout the Com-Apples. Throughout the Commonwealth the livelihood of nearly 100,000 persons depends on the Apple and Pear industry.

Of the 11 million bushels of Apples produced, we used about six million cases ourselves and sent 5,000,000 cases overseas.

This year, with the exception of a small quantity to the East, there'll be no export. The product of the labor of almost half the Apple orchardists in Australia has lost its market. It would be much the same as though half the employees of some of our largest secondary industries were suddenly thrown out of work.

There are other costs besides those of the actual production of the fruit, picking and packing and grading, cases, paper and nails, freight and handling. The money to pay for these can only be found either by selling the Apples at a reasonable price or from the pockets of the taxpayer through Government sub-

The Apple and Pear Board has a twofold obligation. One, to make good quality Apples available at a reasonable price. Two, to realise prices which will save the taxpayer and the Govern-

The Commonwealth Government has acquired the Apple and Pear crop, not because it wanted to, but because it accepted the great responsibility imposed upon it by this war-time prob-

The Acquisition Scheme has critics, but I feel that most of such criticism is based on incomplete knowledge of the facts.

Our choice was either to control the export surplus flood which would have deluged the home market, or to allow chaos to reign. Chaos must result if we permitted each grower and each State to fight it out for the markets available in an orgy of cut-throat competition. We have chosen the more difficult path of

The guaranteed price may not It was determined only after

The people here should use fruit and fruit juices of all kinds

There is one way in which every one of us can help the man on the land, and at the same is by making every effort to consume the products of our own country.

The Apple-growers are worth helping; they are a hard-working loyal section of our community.

Deputy Chairmen.

The appointments of deputy chairman of State Committees under the National Security (Apple and Pear Acquisition) Regulations were announced. Regulations were announced. They are: Queensland, Mr. Y. F. Jesser; New South Wales, Mr. C. G. Savage; Victoria, Mr. N. W. Fairless; South Australia, Mr. A. G. Strickland; Tasmania, Mr. R. W. Humphreys phreys.

:: For and Against.

The Fruitgrowers and Primary Producers' Defence League has been active.

Meetings have been held in several centres.

At Frankston (Vic.) in early February, resolutions were car-ried: (a) requesting the Federal Government to repeal the Acquisition Regulations forthwith, otherwise growers would be compelled to take drastic steps to exert their just rights. (b)
That because of the failure of the Victorian Minister of Agric. (Mr. Hogan) to attend growers' meetings, the Commonwealth Agricultural Council demand his resignation.

A deputation waited on the Assist. Minister for Commerce (Mr. Anthony) on February 12, when Messrs. F. A. Bloom, Thos. Rose and others spoke vigorously against acquisition. Mr. W. H. Everard, M.L.A., said that under acquisition, the bulk of the growers were nearly insolvent. Mr. Isaac, M.L.C., stated the fruitgrower was subject to inequality of sacrifice.

Replying, the Minister said that because the export market had disappeared, the Govern-ment had been asked to protect growers. Without control there would be collapse of the industry and chaos.

At a deputation to Senators It was determined only after lengthy consultations between representatives of the growers, the State Governments and the Commonwealth.

In a climate like ours, especially in the Summer time, we ought to be using much more

At a deputation to Senators Keane and Cameron on February 25 the Defence League speakers included Mr. A. F. Bloom (Mitcham), Mr. E. W. Buttle, Mrs. Serpell (Doncaster), Messrs. T. Rose (Vermont), H. N. Read (Wonga Park), A. J. Noble (Tyabb), V.

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The Tie That Binds

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Gargoyle RED Spraying Oil

out some administrative defects. A return to open marketing was requested with bonuses for such growers as needed them.

Mr. H. W. Soothill, Deputy Chairman, Apple and Pear Marketing Board, replied that the suggested bonus of 2/6 a case would involve the Government to the extent of £1,500,000, and still retain the problem of the disposal of the fruit. He believed that 75 per cent. of the growers throughout Australia favored acquisition.

resolution was carried requesting the Federal Labor Opposition to press for the appointment of a Select Committee of Enquiry.

Test Case Proposed.

The Secretary of the Fruit-growers and Primary Producers' Defence League (Mr. E. W Buttle) states that counsel's opinion had been obtained to the effect that acquisition regulations are unconstitutional, and that members of the League had decided to support the N.S.W. plans. Matters connected growers financially in testing the actual handling of the case before the High Court. were raised and discussed.

H. Clark (Pakenham), and M. The Defence League arrang-Elwood (Batesford). Vigorous ed for several members of Par-speeches were made condemning liament to visit orchards at the acquisition plan "lock, stock Vermont and elsewhere to obtain and barrel," and also pointing first-hand information regarding the effect of acquisition and the losses incurred by growers.

> THE OTHER HAND, the Secretary of the Portland Cool Store, Mr. E. W. Hedditch, writes severely criticising as parochial the action of metropolitan growers in their crusade against acquisition. The plan was enacted at the request of the Australian growers.

Harcourt.
Cr. J. B. Warren presided at a meeting of over 100 district growers on February 26, when a resolution supporting the present acquisition plans was carried on the motion of Mr. H. Ford, seconded by Mr. W. Eagle.

In the discussion it was stated that Harcourt growers had emphatically sought the enactment of the acquistion plans on the lines now operating.

Mr. H. W. Soothill, Deputy Chairman of the Apple and Pear Marketing Board, detailed the procedure leading up to the Government's acceptance of the plans. Matters connected with the actual handling of the crops

GOULBURN VALLEY GROWERS FAVOR ACQUISITION.

The Editor, "Fruit World."

Sir, Criticism of the Apple and Criticism of the Apple and Pear acquisition scheme by Mr. Hollway, leader of the United Australia Party, was based, so we are told, on a letter from a Goulburn Valley grower to the effect that growers are being paid £7 per ton to bury their fruit under the supervision of Inspectors of the Department of Agriculture, which, to say the Agriculture, which, to say the least of it, is an absurdity.

In the first place there is no such thing as a payment of £7 per ton, payment being at per bushel, according to size and quality, and secondly, no grower has had to bury his fruit. He was not at liberty to sell the fruit, but can feed it to stock.

The difficulty with the Pears was brought about by the abnormal crop and lack of sufficient cool storage space for fruit owing to the cool stores being filled with other primary products.

The Northern Victoria Fruitgrowers' Association, which represents 98 per cent. of the growers in the Goulburn Valley, unanimously agreed to the acquisition plan, and with representatives of other fruitgrowers' organizations throughout the Commonwealth, took part in the Conferences which asked for and assisted in the formation of the scheme.

Despite a noisy minority of growers we are satisfied that there is general agreement among producers regarding the necessity for acquisition because of the cessation of export.

My Association commends the Commonwealth Government for its action in making the acquisition plan possible, and our attitude towards the Apple and Pear Marketing Board is to assist and co-operate wherever possible in carrying through a most difficult task.

On behalf of the Executive of the Northern Victorian Fruitgrowers' Association,

> (Sgd.) W. P. CORNISH. Secretary.

Ardmona, 28/2/41.

Mr. H. Vallence, Bacchus Marsh, writes supporting the acquisition plan, seeing otherwise only chaos, because of the 5,000,000 to 6,000,000 bushel surplus. He states, "While the Board was not a model of efficiency in its first year, it would have done better had all the growers pulled their weight. I heard of growers criticising the Board when they had been selling their fruit outside the scheme at prices made possible only by its operations.

POULTRY IS A PROFITABLE SIDE LINE FOR ORCHARDISTS.

Read the . . .

"Australasian Poultry World"

SIXPENCE PER COPY.

Box 1944, G.P.O., Melbourne.

Apple and Pear Acquisition (Continued)

At a meeting at Frankston, Victoria, on February 27, Cr. Wells presided over an attendance of about 200 fruitgrowers and others. There were also present Senators Keane and Cameron, Mr. W. H. Everard, M.L.A., and many leaders of the industry. industry.

The meeting was of a lively character, there were many in-terjections, the chairman hav-ing frequently to appeal for order.

Mr. E. W. Buttle, Secretary of the Fruitgrowers and Primary Producers' Defence League, said there were too many Boards. In times of glut of any primary produce, the public got the goods cheaply and surpluses were cleared. But producers averaged out over the years. He urged that the Apple and Pear Board be wiped out, leaving growers free to market fruit as

Messrs. H. N. Read, T. Rose and V. A. H. Clark gave instances of practical disabilities under which they were suffering, including low prices for certain varieties and picking instructions for unsuitable times. Mr. Rose advocated kerb markets.

Mr. M. Elwood (Batesford) said present prices were unpayable, people he knew were eating less fruit.

Mr. W. H. Everard, M.L.A., advocated kerb markets and li-

censes for growers to sell fruit. Senator Keane said the Labor Party favored orderly marketing, but from statements made to him he would endeavor to have a Committee of Enquiry appointed to examine the opera-tions of the Apple and Pear Board.

Senator Cameron stated that the present Government was supported by big monopolies sugar, meat, tobacco, the B.H.P., etc. The Apple and Pear regulations were a "ramp"; growers should organise.

Cr. J. B. Warren said that a meeting of 100 growers at Har-court on February 27 had unani-mously favored the acquisition

Voices: "You are squibbing!" "We won't give you a hearing, boy!"

Continuing, amid interruptions, Cr. Warren said that despite the difficulty of low prices for some varieties, he had been convinced that a control plan was necessary for the industry as a whole.

Mr. Charlesworth stated he was a working carpenter; he opposed the Apple and Pear Board, also other Boards, controls of foodstuffs and monopolies generally. He believed in Trade unions, but attacked the policy of the Labor Party.

Cr. J. E. Collier (Lilydale) said the Egg Board was one of opposed the Apple and Pear Acquisition plan.

The chairman introduced Mr. H. W. Soothill, Deputy Chairman Apple and Pear Marketing Board, and asked the audience to give him a good hearing.

Mrs. Serpell: Do you think he deserves it?

The Chairman: Yes. Defin-ely. You want to hear both itely. sides of this question.

Mr. Soothill said he wished there had been a poll of the growers in Australia re acquisi-tion as he believed the vote would have been overwhelmingly in favor. He detailed the procedure re growers' conferences leading up to acquisition. Al-ternatives had been suggested, but on detailed examination were not found to be workable; at present wholesale prices Apples should sell at not more than 3d. per lb. retail, which compared more than favorably with other fruits and foodstuffs. He answered many points raised by in-

Mr. W. P. Hutchinson (chairman Victorian State Committee Apple and Pear Board) said that this season 78,000 cases of Apples had been sold at a net average wholesale price of 4/11¼. Retailers could not complain of paying high prices, nor were prices to the public of 4d. per lb. and higher justifiable. He indignantly denied that the Board was a "ramp"—but he had heard of politicians being associated with political ramps.

Mr. W. P. Mair, amid heckling, stated he believed the vast ma-jority of growers favored acquijority of growers favored acquisition—even on the Mornington Peninsula; as a commercial pro
| Mr. A. J. Noble (Tyabb) spoke in support. On a show of hands the chairman declared the motion carried

MEETING AT FRANKSTON.

At a meeting at Frankston,
Victoria, on February 27, Cr.

the finest institutions in the ducer of Apples he would say country. (Voices: No! No!) that at 3/- a bushel net at the But he believed a majority of orchard, fruitgrowing was paythe fruitgrowers in his district able. In the past, Metropolitan the fruitgrowers in his district able. In the past, Metropolitan the fruitgrowers in his district able. growers had been successful only because of the exports from country centres. The yearly consumption of Apples in Australia could be substantially in-creased by the co-operation and goodwill of growers and the

> Mr. Lillywhite (Somerville) said he believed in acquisition as a war measure. Despite some varieties compensated at 1/- a bushel, 85 per cent. of the Apples on the Peninsula were in group 1.

Mr. J. M. Atkinson (Henry George League) attacked Boards generally, also the Sugar Con-trol and other monopolies.

In answer to Mr. Handasyde (Wantirna), Mr. Soothill said that the Government had given careful consideration to proposals for taking care of the export fruit and leaving the Australian market free for normal sales, but such were found unworkable.

The cost last season would be under the provided sum of £750,000. This cost was influenced by the drop of Apples (in the 1940 heat wave) on which advances had been paid (estimated at amount of £350,000) and by the payment of the extra 1/- a case not provided for in the original budget—£300,000.

It was well after midnight when Mr. Lewis (Pearcedale) moved "that this meeting re-quests the Federal Government to subsidize export growers so that they can live, and abolish the present scheme and allow normal marketing to go on in the ordinary way."

ALTERNATIVE TO ACQUISITION.

The "Fruit World" Invites Correspondence.

Recently Mr. R. A. W. Bailey, of Narre Warren, Vic., a well-known grower, submitted proposals to replace acquisition. These were published in this journal.

What do growers think of these proposals? any other suggestions forthcoming?

These pages are open for constructive ideas.

At meetings of the Victorian growers proposals have been put forward for the Government to take care of the export surplus and leave growers free to market their fruit as before; also for growers in Tasmania, Western Aus-tralia and elsewhere to receive bonuses according to their needs.

Correspondents are invited to develop these ideas in detail or to submit others.

Statements have made that the majority of Australian growers are in favor of acquisition under the stress of war conditions.

A poll of the growers in the Commonwealth would decide this matter.

What do our readers think?

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Apple and Pear Acquisition - (Continued)

New South Wales.

During February there was some adverse press criticism in N.S.W. regarding the acquisition plan.

Complaints came from Armidale regarding slowness in paying for fruit delivered.

Mr. J. H. Yeomans, of Arding, said 1,000 cases had been delivered in January, and although payment had been promised within 14 days, nothing had been received up to February 20.

L. H. Goode (Arding) Mr. stated he had grubbed out 4 acres of young trees—more would be grubbed when the crops had been picked.

However, the early criticism was followed by favorable comments, it being pointed that the plan protected N.S.W. growers from unregulated and glut supplies from other States on the Sydney market.

Housewives Will Assist.

Association, advocated markets in each suburb where women could purchase Apples in 2 case and case lots. She was prepared to take orders for any surplus above regular deliveries to fruiterers. This would not injure shopkeepers, because there was always a trade for picked fruit in small quantities.

Opinions at Griffith, N.S.W.

Reports indicate that the acquisition plan is generally accepted by growers as a war

However, Mr. W. Ridley, of Griffith, attacks both the existing social system as well as the acquisition plan. He writes:-

"Why did not the Menzies brain trust start on the B.H.P. first and demand that they deliver their products at about one quarter of its costs . . . My King Davids, for which I receive 1/per bushel, will eventually grace shop windows as Jonathans and

kerb irrigate, for the magnificent where sum of 1/- a case? In whose sum of 1/- a case? In whose interests are such men as myself, with hundreds of others, forced in to bankruptcy growing fruit that 50 per cent. of the people crave but can't buy? Why are packers allowed all packing costs? Why is it justifiable for all who handle my fruit to make a profit?

> "Because the whole system is imposed upon us in the interests the controllers of finance, whose policy is to compel us to 'fit and limit' our wealth production into their crazy financial system.

Fruit Retailers.

The Assistant Minister for Commerce (Mr. H. L. Anthony) recently warned fruit retailers against obtaining Apples except through the authorised chan-nels, as evasion of the law would be an offence, and lead to prosecution.

Housewives Will Assist. be retailed at about 12/- to 14/- The President of the Retail Mrs. Eleanor Glencross, Preper case. Why must I take all Fruiterers' Association of Vicdent, N.S.W. Housewives' the risks, cultivate, spray, and toria, Mr. C. Mawdsley, states

that retailers recognise the effect of the war on the fruit trade; his Association will co-operate with the Board and with the public to ensure most effective distribution.

> GREEN MANURE AS SUBSTITUTE.

Shortage of Nitrogen.

ITH THE SHORTAGE of nitrogen supplies owing to the war requirements, the Research Station at Griffith advises a greater use of leguminous green crops.

One type of nitrogen-fixing bacteria lives on the root nodules of leguminous plants, so that the growing of leguminous plants, thus making use of the natural nitrogen-fixing chemical factories, is still one of the most economical ways of obtaining nitrogen for agricultural pur-

By a good crop of tick beans or cowpeas, as much nitrogen is fixed in an acre of orchard as is in 8 cwt. of sulphate of am-

Not Immediately Available.

All this nitrogen is not immediately available to the trees. It does not become available until the green crop decomposes. However, some becomes available quite rapidly—particularly in the Summer. Even if we only consider half of it is equal in value to that in sulphate of ammonia it is easily seen that the leguminous plant is the cheapest form of nitrogen for the agriculturist.

When land is fallowed, other types of bacteria will fix atmospheric nitrogen, and certain bacteria make nitrogen in organic matter (unavailable nitrogen) available to plants by changing it to nitrate, so that fallowing is another method of conserving agricultural nitrogen and thus economising on the use of sulphate of ammonia. Where sufficient water is available, how-ever, as on the Irrigation Areas, it has no advantage over leguminous crops and has certain disadvantages. It may be pointed out here that if a farmer grows a leguminous crop and feeds it off, a large part of the nitrogen is returned to the soil as urine which is as good as sulphate of ammonia. Generally speaking, sufficient would be returned for a subsequent crop.

Orchardists and others will realise that by the greater use of leguminous green manures and farmyard and sheep manure they are not only improving their own economic position but definitely assisting in the war effort by conserving sulphate of ammonia for industrial purposes.

green manuring is cheapest form of nitrogen this should be used as much as pos-

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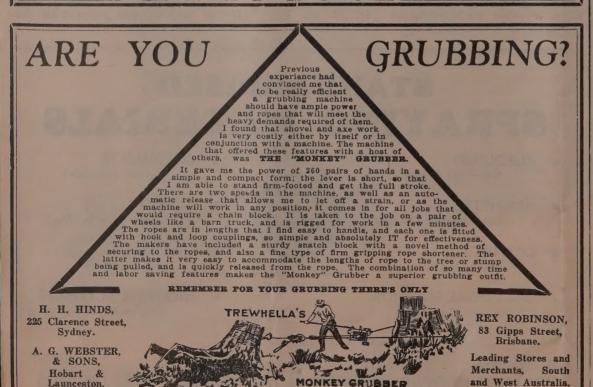
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Trentham, BROS.

New South Wales News and Notes

Murrumbidgee Irrigation

Satisfactory Water Storage — Apple and Pear Acquisition -Record Canning of W.B.C. Pears — Export of Oranges to New Zealand.

(By Our Correspondent.)

After the early Summer uneasiness on the subject of storage, the remarkable change in the seasonal condition has brought about a position in water storage where the great reservoir now contains as much water as in years when it com-menced the irrigation season filled to capacity.

Of particular interest to farmers in general is the opening of country grading and candling floors at the Leeton Cannery. This will greatly stimulate local and district egg pro-

Bindweed is again in the news. Considered by the Departmental experts to be a menace to horticulturists, this weed is becoming widespread throughout the Area.

Statements were recently made by the Wade Shire (Griffith) implying that it was useless advising settlers on the eradication of bindweed, as they did not attach much importance to it. Opinions expressed in the Leeton district deplored any minimisation in the possible effect of an infestation, which, while only light at present, can have the most devastating effects in an orchard district if not immediately and effectively not immediately and effectively ended. Previous statements by the Weeds Officer of the Department of Agriculture, Mr. K. G. Carn, support this view.

The Apple and Pear Acquisi-

ONSIDERABLE SATIS—smoothly on the Area, and, with FACTION is felt by all the exception of King David settlers at the present Apples at one shilling per case for fancy grade, growers have expressed satisfaction at the prices being paid.

> The Apple crop is of good quality and the Departmental fruit inspectors have remarked on the unusual high colour of the red varieties. Granny Smith Apples of smaller size than 163 count, are not now being forwarded to market. Packham Triumph Pears, with a very heavy crop generally, are of splendid quality.

> The cannery season is now in full swing, and a record crop of Williams (Bartlett) Pears has been processed. Peaches are now flowing in and a quantity of Gordo Grapes are also being received. The canning Peach crop is expected to be a heavy

Wine Grape Wine Grape growers are pleased to learn that the whole of the present crop, which is expected to be a heavy one, is to be taken by the Griffith District Wineries, at last season's prices.

Hot weather for the past week is favoring the Prune and Sultana growers. Prune drying is well on the way and should provide heavy tonnages. A few growers of the D'Agen variety are expected to harvest nearly three tons to the acre.

Export of Valencia Oranges to New Zealand continues, al-though the fruit is now greention Scheme is working quite State benefits. For instance, the guarantee to lenders.

Griffith Producers alone exported 66,197 export boxes of citrus so far this season, and the re-Areas lease of this quantity of fruit from the local markets must have benefited market values considerably.

Swiftly moving events have brought the plans to make the Murrumbidgee Irrigation Areas an inland centre for food production, storage and distribution, and a reception depot for evacuees from thickly-populated coastal areas into the position of an imminent national project. Viewed from the angle as an evacuee area, the M.I.A. provides a centre to which coastal populations can be moved with

The M.I.A. and the districts surrounding them have all the facilities of production, pro-cessing and packing of foodstuffs.

One of the leading Peach growers in the Griffith District has converted his block to permanent clover coverwatered by contour bank flood irrigation. To date good results have been obtained.

Other growers throughout the district are also considering radical changes in irrigation policy.

Experimental work on these lines is being conducted and it is hoped that the results will prove of great benefit to the fruit industry.

CO-OPERATIVE DEVELOP-MENTS IN N.S.W.

Farm Buying Project.

HE PURCHASING OF FARMS for producers is the objective of the Far North Coast Development Bureau. The project is an ambitious one, and is on the lines of the successful co-operative home building societies. Farm purchase schemes have been brought forward from time been brought forward from time to time on the basis of direct Government finance. The new ing off considerably. Export to project is for the purchase of N.Z. means a lot to the Area citthe farms through co-operative rus growers. In fact, the whole societies with a Government project is for the purchase of

FREE FRUIT FOR CHARITIES.

N.S.W. Government Buys Apples and Pears.

Volunteer Pickers.

ONGRATULATIONS to the N.S.W. Go-vernment for its enterprise in arranging for the supply of Apples and Pears to hospitals, orphanages, kindergartens, and charitable institutions.

The Premier of N.S.W., Mr. Mair, stated that as a beginning he planned to obtain the equivalent of 10,000 cases. The N.S.W. Railways were co-operating. Volunteer pickers ing. Volunteer pickers were being organised; sacks would be used instead of cases. A price was being paid to the Apple and Pear Board in keeping with the circumstances.

It is expected that 50,000 bushels will be utilised in this way.

BANANA CULTURE.

Success by Covering Growing Bunches with Bags.

ARKED SUCCESS has been attained by the covering of Bananas in covering of Bananas in hessian or paper envelopes. More attractive fruit has been produced, states Mr. H. W. Eastwood, Special Fruit Instructor at Murwillumbah, N.S.W. The fruit on the bagged bunches develops more evenly than on naked bunches. More fruit is produced of better quality—by produced, of better quality—by far exceeding the cost of the bagging. Though hessian costs three times more than paper, it is cheaper in the long run.

Batlow, 25/2/41.—Mr. A. E. Herring reports as follows:-Pears and Apples: Very heavy crops, quality excellent; a few low-lying spots were hit by frost.

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LARGEST STOCK OF STONE FRUITS IN STATE SPECIALIST IN BUDDED WALNUTS AND ALL NUT TREES. BLACK ENGLISH MULBERRIES, LOQUATS AND VINES. New Peaches include BABCOCK and RIO OSO GEM. 30 Varieties of Persimmons stocked. Grafted Feijoas in several varieties.

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DISPOSAL OF CANNING WASTE.

Various Chemicals Used.

In a paper read at the 1939 Canning Problems Conference in Chicago, Mr. H. H. Danborn, of the National Canners' Association, stated that the disposal of liquid waste from canneries by rural communities.

Various forms of chemical

Lime is used largely because of its low cost. The waste is agitated in the tank by motor-driven propellors and after precipitation the liquid waste is discharged on to drying beds. has become a problem that is being faced by the industry.

When diverted into streams, it kills fish life and is objected to the latter being dried and burn-

precipitation are being tried 'making a new type of flattened 'count of the many interesting out and preliminary crushing of can which will solve the packing articles concerning the problems large pieces of waste before transport problem. The cans precipitation is being found to are printed and cut into shape assist the precipitation process. and packed flat, thus taking only ing. In this district of Central one-fifth of the space of made-up cans. They are re-assembled by machinery at the cannery.

APPRECIATION FROM N.Z.

A New Zealand reader of the "Fruit World," when forwarding his cheque for renewal of

subscription, adds:—
"I always look forward to re-

ing. In this district of Central Otago, we have our share of pests and fungoid diseases, but on account of the dryness of our climate, fungoid troubles can be kept under control by the exercise of care in spraying and proper orchard sanitation. Pest visitations have this year taken a big toll of Apricots, and in our English can companies are ceiving the 'Fruit World' on ac- sustained."

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Stem punctures and bruises eliminated. Write for catalogue.



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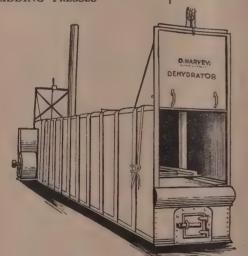
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The "Harvey" Citrus Washing Plants SAVE SPACE - CAN BE USED WITH HOT OR COLD WATER.



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The "Harvey" Re-Circulation Dehydrator

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It is the best, cheapest, and most efficient type of dehydrator known. Used by all the most up-to-date Packing Houses and Sheds.

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The Goulburn Valley (Victoria)

Heavy Canning Season - New Railway Bridge at Mooroopna-Grant for Roads - Williams Pear Losses

(By Our Correspondent.)

capacity (including overtime) canning Williams Pears and the mid-season Peach crop.

The Ardmona Cannery is having a particularly heavy season, with its cool stores over-taxed. Heavy arrivals of Pears were received during the past few weeks, and growers have now completed their deliveries.

With the high quality of the fruit, the cutters and canners have been able to earn good wages, and are quite satisfied, and a big percentage of the fruit processed is of export quality.

The cannery is working at full pressure, including two Sundays and several week nights, to cope with the big

Heavy supplies of mid-season Peaches are now coming forward, and the Sims Cling is just about finished, to be followed by good crops of Golden Queen, Phillips Cling, and Goodman Choice, and then the late varie-ties of Pullars and Thiele Cling.

The mid-season Peaches are being processed in conjunction with Williams Pears, and it is hoped that the bulk of the Pears will be finished before the heavy rush of the Pullar Cling

The efficiency and smoothness working of these Goulburn Valley canneries are amazing in the way they handle such huge quantities of fruit. They are of immense assets to the district, and the salvation of the Goul-burn Valley fruit growing industry.

A New Railway Bridge at Mooroopna.

building a new concrete and injury and other causes. On steel bridge over the Goulburn the balance growers will receive River at Mooroopna. The new 3/6 per case.

HE Shepparton, Ardmona, bridge, when constructed, will and Kyabram Canneries be an imposing structure, capare all working to fullest able of carrying heavy engines able of carrying heavy engines and big loadings without causing and big loadings without causing concern, and is a symbol of the optimism which prevails regarding the future of the Goulburn Valley and Southern Riverina. The cost of the new structure will be about £25,000. The present bridge, which is a wooden structure, has given many years of useful service, and withstood many floods, but has now become unsafe for heavy traffic.

Grant for Fruit Growers' Roads.

A country Roads Board grant of £400 has been made available to Shepparton Shire for fruitgrowers' outlet roads. The Council will be required to spend £100. This is the normal Federal aids constructional grant for these roads.

Williams Pears.

There is a good deal of controversy in the Goulburn Valley concerning the W.B.C. Pear crop concerning the W.B.C. Pear crop this season. Conflicting views are expressed. It is evident, however, that a large propor-tion of the fruit was not har-vested. The rains and the heat filled out the Pears and a much bigger crop came forward than was anticipated. Criticism of the Board and its local agents is freely expressed by some, whilst other growers, including leading men in the industry, are quite firm in their conviction that despite all difficulties and shortcomings, the control system is the only effective method of handling this vast business under war conditions. Probably the canneries were operating cautiously this season in view of marketing difficulties ahead.

Deductions in the assessments were from 20 to 50 per cent. The Railway Department are These deductions were for moth

orchards. All stocks propagated from prolific bearing parent trees, fibrous rooted and guaran-teed straight stemmed. — Catalogue free. GOODMAN'S NURSERIES BAIRNSDALE VICTORIA



have been issued to growers for the handling of the balance of unharvested W.B.C. Pear crop.

After cannery quotas have been delivered, growers must harvest the remainder of the W.B.C. Pear crop into any type of standard case. No sorting is required. The boxes of fruit are to be stacked together in a convenient place in the orchard, each type of box being stacked

separately.

Wherever possible boxes will be supplied for the purpose, but it must be understood that growers are responsible for any boxes that are destroyed by the growers and the boxes returned immediately unless otherwise instructed.

Immediately harvesting completed, growers must notify Inspectors, when arrangements will be made for an assessor to inspect and assess the fruit in accordance with the Regula-

The statement published in the public press that growers were paid £7 a ton to bury their fruit was officially denied, as was also a statement that growers were not permitted to feed their own livestock with fallen fruit.

DOOKIE AGRICULTURAL COLLEGE.

"A satisfactory year" is re-ported by the Principal Mr. G. chilling in the Winter and should B. Woodgate, B.A., Dip.Ed. The be more resistant to prolonged

Instructions to Growers. dux was R. V. Harrison, closely The following instructions followed by R. T. Milligan and G. D. Brooke.

NEW PEACH VARIETIES.

Fruitgrowers and canners in U.S.A. are continually looking for new varieties of fruits which may better meet local and national requirements.

At Riverside, Southern California, there is the important experiment farm which, though known as Citrus Experiment Station, investigates many types of fruits other than citrus.

new Peach varieties Five (four Freestones and one Clingstone), especially adapted to regions of mild Winters, have been developed at this Experiment Station in Riverside.

The new varieties, designed for fresh consumption and home canning, are Rosy, a white-fleshed variety maturing in midseason; Golden State, a yellow-fleshed Peach notable for large size and good quality; Hermosa, also white-fleshed and possessed of good flavor; and Sunglow, a Peach with attractive orangeyellow flesh.

The lone Clingstone variety in the group is called Ramona and is a yellow-fleshed, latematuring canning Peach.

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For Apples and Citrus Fruits

Allows use of both hands. No bruising of fruit. Weight carried on shoulders, instead of back of neck. Full way opening for discharge. No hooks to injure trees.

MR. C. L. IVEY, CYGNET, TAS-MANIA, WRITES:—
"I have used "Bay View" Fruit Picking Bags for many years, have bought others, some much diearer, but I always come back to the "Bay View." I find them good for 10,000 cases per bag, say 1/3 for every 1,000 cases."

PRICES:

"Bay View" Bag, web straps . . . 12/"Bay View" Bag, leather straps . . 15/Do., leather bound, leather straps 20/Postage— 1 Bag, 2 Bags,
Within State . . . 1/6 2/-Do., leather b Postage— Within State 1/6 2/6 Adjoining State

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THE A.M.P. Society has prepared six folders and booklets for those young men and women who want to get ahead financially; who want to strengthen themselves so that they and their families may be prosperous and secure.

These six folders are named in the coupon below. Put a cross against those you wish to read (we suggest that you put a cross against all six) and send the coupon to the nearest A.M.P. office. Reading the folders may give you a new outlook on life and its opportunities. You could not spend a twopenny stamp in a more fruitful way. Send the coupon

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dormancy, or delayed foliation, OVERSEAS CANNED NOTES than the Peaches now grown commercially in southern California. They are regarded as promising for small scale commercial and home garden plant- canning Apple juice in two sizes. ing at present.

CANNED APPLE JUICE.

Huge Production in Canada.

Following the scheme out-fined in last issue reporting the proposal of the Apple and Pear Board to popularise fruit juices, which scheme is already in operation, a report from Canada is interesting as showing how the Dominion is attempting to overcome its surplus of Apples converting increasing quantities into juice.

Production of Apple juice in Canada during the 1939-40 season has been estimated at 1,800,000 American gallons, according to a report from the American Consul at Ottawa. This represents an increase of more than 1,000,000 gallons above the production during the previous season.

Commercial production of Apple juice is a relatively new development in Canada. Considerable experimental was necessary before the techniques for producing the juice and preserving its flavor were developed. A large part of this work was carried on at the experimental farm at Ottawa in co-operation with can-manufacturing companies. The export outlet for Canadian Apples was curtailed as a result of the European war and the abnormal volume of Apples left for the Canadian market during the 1939-40 season was an important factor in the expansion of production and consumption of canned Apple juice.

Good Apples are reported to yield about 150 American gal-lons of juice per short ton of ton of fruit, states the "California Fruit News." The yield of juice varies not only with the quality of the fruit, but with the time the juice is made. During September or October the juice yield is considerably higher than the yield for the same variety in January. On the basis of the estimated production of 1,800,-000 gallons of juice with a yield of 150 gallons to the short ton around 12,000 short tons (500,000 bushels) of Apples were used in making the juice from the 1939 crop.

Consumption of the canned juice has been stimulated by extensive advertising, and the product has become quite popular duct has become quite popular as a result of this publicity, together with its low price and its fine flavor. Prior to September, 1939, the three most widely used "food" drinks in Canada were Orange juice (both fresh and canned), Tomato juice and Grapefruit juice. The Tomato juice sold in Canada is packed in Canada. Orange and Grapefruit, however, is imported from U.S.A.

bottled Apple juice, the Nova Scotia Products Ltd. are now

To meet the demand for canned Tomato products in British Columbia, a new cannery will be established at Grand Forks. Seed will be made available to growers and contracts for supplies signed.

CANNED VEGETABLES.

Restrictions in U.K.

An order issued in England on March 19 last prohibits the importation of canned vegetables except under license. This affects all canned vegetables not previously provided for by li-cense and sets out that, in gen-eral, no licenses will be issued to private persons.

SWEET CORN FOR CANNING.

Four Tons Per Acre Possible.

Corn on the cob is a popular dish in America, and, in addition, canned Corn (Maize) is now almost as popular as a quick addition to the dinner menu. The production of Sweet Corn is growing in the Hawkesbury district in N.S.W., where canners are adding this variety to their many activities. Under irrigation, yields up to 4 tons per acre are said to be possible.

Although the past two seasons are reported to have been the worst growing seasons for ten years, results have been comparatively satisfactory.

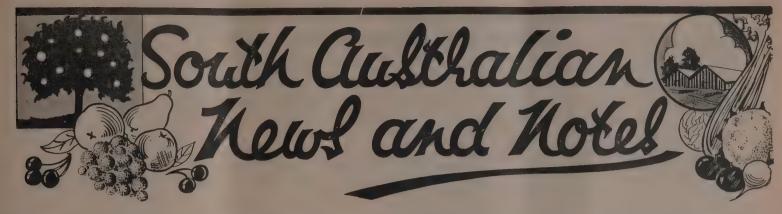
Increased yields are anticipated from late sowings which have been irrigated. Only the golden colored varieties of Sweet corn are favored for canning. There are many other districts in the south where the Corn will grow well, but nearness to a cannery is essential, as the Corn must be processed as soon as possible after it is pulled.

Bathurst (N.S.W.). — The Oberon Peagrowers' Association recently conducted a competition for canning Peas, Mr. G. L. tion for canning Peas, Mr. G. L. Brien was first, with 107 points, Mr. A. E. Armstrong being second, with 101 points.

TOMATO INDUSTRY.

The Tomato variety San Marzano has proved best in N.S.W. for canning and pulp. The Defor canning and pulp. partment of Agriculture has developed a valuable mutation or sport from this variety, states Mr. John Douglass, Senior Mr. John Douglass, Senior Agricultural Instructor. During February the factories were busy making Tomato sauce, and preparing Tomato juice.

The Tomato Mite can be controlled by dusting with flowers of sulphur.



S.A. Fruitgrowers and Market | Fruitgrowers and Market | The annual general meeting Gardeners' Society Ltd.: Mr. N. of celery growers will be held T. Hobbs reported that costs to early in April, but growers will Gardeners' Association Incorp.

MEETING OF EXECUTIVE COMMITTEE.

MEETING of the Execu- members for individual attentive Committee of the tion. above Association was held in the Board Room, 288A Rundle-street, Adelaide, on February 28, 1941, at 10.30 a.m., the President (Mr. H. N. Wicks) the President (Mr. H. N. Wicks) presiding. There were also present Messrs. J. Turner, H. B. Robson, C. H. Ragless, G. H. Schultz, W. Wye, L. J. Wicks, O. Esselbach, R. A. Cramond, J. B. Randell, G. Jennings, W. G. McLaren, G. Clifton, M. Hannaford. Apologies received from Mr. A. G. Strickland (Chief Horticulturist). Messrs W. J. Ris. ticulturist), Messrs. W. J. Bishop, L. B. Pfeiffer, M. Packer, C. Stanford, A. O. Peterson.

Correspondence.

Department of Agriculture: (1) Advising that steps would be taken to regulate the use of certain types of cases on the local markets. (2) Advising codling moth catches at Blackwood Experimental Orchard for the period 3/2/41 to 17/2/41.

S.A. Apple and Pear Acquisition Committee: Advising — (1) That the Committee regretted the impossibility of taking in Howell Pears for distribution. (2) That growers of Williams Pears could retain advances paid, and purchase back from the Board quantities required for drying at 1/- per case. (3) That enquiries were being made regarding the sale of good grade Williams Pears in the Barossa District to ascertain whether any special arrangement could be arrived at to assist growers.

Uraidla and Summertown H. and F. Society: Circular received from the Society stating that it had been decided to approach members for minimum subscriptions of not less than 5/- to meet maintenance costs, etc., until it was considered fit to conduct further shows.

Resolved that the Association contribute 5/- towards the Show

Australian Red Cross Society and the Army Nurses Fund: Appeals received from both these organisations and it was decided to refer the matter to Sydney and Brisbane markets.

Sectional and Branch Reports. Apple and Pear Section: A strong debate took place on various matters arising from Acquisition particularly as regards the W.B.C. Pear.

The President stated that Mr. H. F. Lock, delegate for the Barossa Branch, had asked that the Association approach the State Committee re the urgency for having the present arrangement re Apples and Pears for pig feed revised.

Mr. H. N. Wicks moved: "That the present matter of the state of Apples and Pears for pig feed at 3d. per bushel, be reconsidered by the Board." Seconded Mr. J. B. Randell. Carried.

Affiliation of this Association and S.A. Fruit Marketing Association: The President stated that he had been asked to draft a proposal for the closer co-operation of the Association with the S.A. Fruit Marketing Association and he outlined the proposal briefly.

Mr. L. J. Wicks moved: "That a Committee be formed to investigate the proposal, and if necessary confer with a Committee from the S.A. Fruitmarketing Association." Seconded Mr. R. A. Cramond. Carried. Seconded

Resolved that the Committee consist of Messrs. L. J. Wicks, N. T. Hobbs and J. B. Randell.

Soft Fruit Section: Mr. L. G. Pethick reported that Peaches were very plentiful but despite a record crop, distribution was being effected successfully. Ap-ricots were now finished, but it was surprising the quantities of Nectarines available following the torrential rains during the latter part of January.

Cherry Section: Mr. O. Esselbach reported that there we still fair quantities of Valence Oranges available. Citrus transpared by were looking splended following the rains.

Celery Section: Mr. C. Ridley both reported that quantities of celery

the celery grower were higher this year, but the efforts of the Society in keping the price of crates down to reasonable limits was much appreciated. Trading generally by the Society was buoyant.

Marion Branch: Mr. H. W. Parsons reported that a subcommittee had been appointed by the branch to organise fully Almond growers in and around Adelaide. Almond prices had given rise to much conjecture, but the matter was at present in the hands of the Prices Com-

Potato Section: Mr. C. J. Pitt reported that the rains had had rather a depressing effect on the quality of potatoes on the local markets.

He stated that a field day was being organised to be held on his property at Ashbourne on March 14, and he extended an invitation to members of the Association to be present.

Onkaparinga Potato Branch: On behalf of Mr. L. B. Pfeiffer the Secretary stated that the crops in the district were look-ing exceptionally well.

Celery Section.

Adoption of Standard Crate.

For many years the Association has been using two different size crates for its export of celery to interstate markets, namely long and short crates.

This season the Celery Committee has decided to adopt the short crate as standard for all export markets of the Association, and growers are advised that this crate will be the only one accepted at train or ship by the loaders.

The Chairman (Mr. M. Packer) and Mr. W. Packer are at present in the Eastern States finalising arrangements for the 1941 export season.

Celery is already going forward to the Sydney and Brisbane markets, and on account of the absence of sufficient shipping the committee is conducting experiments with rail transport so as to ensure that all markets are supplied with South Australia's choice celery.

Mr. R. G. Bartram has been reappointed as the Section's organiser for the coming season, and growers are requested to contact him on any matters pertaining to transport.

be advised in due course as to the exact date of the meeting.

Interstate representatives will be present at the meetings.

POTATO GROWERS.

In the December issue of the "Fruit World," an article entitled "Potato Culture," by Mr. H. H. Orchard, Horticultural Adviser, S.A. Dept., of Agriculture appeared. Numerous enquiries have been received as to when the concluding article under this heading would be published, and growers are now advised that Mr. Orchard has been approached on the matter, and has promised the concluding article at an early date.

Arrangements have also been made through the Onkaparinga Potato Branch for a series of articles to be written by Dr. Bald, of C.S.I.R., Canberra. These articles, when available will appear in the "Fruit World."

FIELD DAY.

Mr. C. J. Pitt, Vice-President of the Association, advises that a field day in conjunction with various Agriculture Bureau Branches of the District will be held on his property at Ash-bourne on Friday, March 14,

A large acreage of this property is under Potato crop, and the day should be of great interest to Potato growers.

An invitation is extended to any member of the Association to be present at the field day and any one making the trip will find the effort worthwhile.

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A. STUART, Secretary, F. & M.G. Society Ltd.

DONATION TOWARDS THE WAR EFFORT.

The Tomato Section of the Association last season decided to solicit voluntary donations from its members for the purpose of presenting to the military authorities a cheque for providing an ambulance or other essential equipment.

The presentation will shortly be made and any grower who has not contributed towards this worthy effort, and is desirous of doing so, should contact the Sec-retary without delay.

DEATH OF MR. A. ROSE.

The passing of Mr. Alf Rose on February 5 last, was learned with regret by fruitgrowers and market gardeners in South Aus-

The late Mr. Rose was for many years Adelaide manager for Messrs. Silk Bros. Pty. Ltd., and was well and favorably

SOUTH AUSTRALIA—(Continued). | The South Australian Fruit Marketing Association, Inc.

The monthly meeting of the Executive of the South Australian Fruit Marketing Association was held at Adelaide on February 28, 1941.

Present: Messrs. J. B. Randell, Chairman, R. H. A. Lewis, R. G. Hannaford, M. J. Vickers, S. M. James, H. N. Wicks, R. A. Cramond, F. F. Redden, R. O. Knappstein, A. G. Strickland, F. Rowley, G. S. Queale, L. J. Bishop, and the Secretary.

Suggested **Amalgamation:** Mr. Randell read a draft of the proposals prepared by Mr. H. N. Wicks, in connection with the suggested amalgamation. It was resolved that copies be sent out to all members of the executive to enable the matter to be discussed at the March meet-

Apple Prices: Members were critical of the prices that had critical of the prices that had been fixed for Apples with the "Affinity of Varieties," until the Acquisition scheme, and a number of questions were put to Mr. M. J. Vickers, Chairman of the for Messrs. Silk Bros. Pty. Ltd., and was well and favorably known by all connected with the industry.

State Apple and Pear Acquisition Committee, and it was finally resolved on the motion of Mr. F. F. Redden, seconded by

opening price should be fixed with a view to increasing consumption."

The Secretary was instructed to forward this resolution to the State Apple and Pear Acquisition Committee.

Growers' Sub-Committee.

The monthly meeting of the Growers' Sub-Committee of the South Australian Fruit Marketing Association was held at Adelaide, on February 28, 1941.

Mr. S. M. James presided at the Growers' Sub-Committee meeting.

Owing to the small attendance, Mr. Wicks kindly consent-March meeting.

Apple and Pear Acquisition: A number of questions were put to Mr. A. G. Strickland, in regard to the working of the Acquisition scheme, and matters which were causing difficulty to growers were discussed; particularly in regard to payments on fruit delivered, and also on measured gardens, and in regard to supply of varieties.

STH. AUST. DRIED FRUITS BOARD.

Further Plantings Discouraged.

The Sth. Aust. Dried Fruits Board met at Adelaide on Feb-

The rate of the annual contribution was fixed at 4/3 per ton, and the Committee's recommendation for opening quotas was also adopted.

The Secretary (Mr. W. N. Twiss) reported that the Consultative Committee had given close attention to the budget proposals submitted by the Boards of S. Aust., Victoria and N.S.W.

On the recommendation of the Consultative Committee, it was agreed to again approach the Government on the matter of discouragement of further plantings of areas for the production of dried vine fruits.

Secretary reported that arrangements had been fixed for the grading of the Coonawarra pack by an officer of the Department of Commerce.

In the matter of the door classification plan, the Board decided not to appoint a supervising grader for the Berri area for the year 1941.

Two applications for packing house registrations and one for a dealer's registration for year ending December 31, 1941 were approved, as well as assessments of the annual contribution for 1940 of packing houses which had furnished final returns.

THE SOUTH AUSTRA-LIAN FRUIT MARKET-ING ASSN. INC.

March Meeting.

The March meetings of the Association will be held at the Secretary's office, 83/4 Brookman Buildings, Grenfell-street, Adelaide, on Friday, March 28, 1941.

Growers' Sub-committee commencing at 1.45 p.m. Speaker, Mr. H. N. Wicks.

"Affinity of Subject: Varieties.

Executive Committee Meeting will commence at 2.45 p.m.

E. WHITFIELD MILLS, Secretary.

SOUTH AUSTRALIA.

Rains Affect Currants and Prunes — W.B.C. Pears Not Harvested.

VELCOME RAIN averaging about $4\frac{1}{2}$ inches, during the latter part of January, have put fresh life into the vineyards and orchards which were suffering from the effects of a prolonged drought, and absence of the usual Winter and Spring subsoil rains. came, however, at a bad time for the Currant crop and early ripening Splendour Prunes, the skins being badly cracked; whilst many of the larger Cleopatra Apples have developed bitter pit. bitter pit.

The canned Pear position in this State is unsatisfactory. The Assistant Minister of Commerce (Mr. Anthony) is reported to have said that the entire crop of canning fruit would be processed, and that all Peaches, Pages and Applicate suitable for Pears and Apricots, suitable for the purpose, would be accepted by canners in the various States. As a matter of fact, although the W.B.C. Pear crop in S.A. was not heavy, canners have re-fused to take more than about one-third of their usual supplies. In consequence, some hundred tons of choice Williams Pears in this district could not be sold, and were fed to stock, or left on the ground.

The Barossa district has a high reputation for the quality of its canned and dried fruits. In a consignment of canned fruit, sent to London a short time ago, experts stated that the Pears (grown in this locality, and processed by an Adelaide cooperative company) were the best they had seen imported from any part of the world. Considering that the Federal Government has agreed to take financial responsibility for the surplus of canned fruit usually exported, it is surprising that S.A. canners should curtail their output to such an extent.—From B. Robin, Nuriootpa, S. Aust.,



comes to you with a variety of toolbar equipment especially developed for the orchardist. The tractor, with its economical 4-cyl. engine, has a range of field speeds from $1\frac{1}{2}$ to $4\frac{2}{4}$ m.p.h., and a road speed of 10 m.p.h. of field speeds from 1½ to 4½ m.p.h., and a road speed of 10 m.p.h. FARMALL-A's SLOTTED TOOL BAR enables you to fix direct-connected mouldboard ploughs, spring and stiff-tine cultivators and reversible disc harrows quickly in any desired position for ploughing on or off or cultivating right up to the butts of the trees, and to control them easily from the driver's seat. . . Floating action of the tool bar permits implements to follow ground contours assuring good, even work. Write to us for a detailed description of Farmall-A and its direct-connectod machines and implements, or ask your McCormick-Deering local agent to tell you about them. McCORMICK-DEERING line includes a full range of wheel and crawler type tractors to meet all requirements on small or large farms.

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SOUTH AUSTRALIA—(Continued).

Progress Report on Grape Juice Investigations at Roseworthy Agricultural College

(By J. L. Williams, R.D.A., Horticulturist and Oenologist, and A. R. Hickinbotham, B.Sc., B.Ed., Chemist, in the S.A. "Journal of Agriculture.")

[The first section of this report appeared in our February issue on p.p. 18 and 19. The report gives particulars of the twenty-five varieties of Grapes which were tested, 14 of which were of the white type. Of the red sorts Shiraz and Aramon were considered the best, followed by Black Muscat of Hamburgh, Labraska, Isabella, and Flame Tokay. White Hermitage and Shiraz yielded the best of the white and red juices respectively. Maturity of fruit for harvesting, washing, milling and pressing were also dealt with in detail in last month's notes. The article is now continued hereunder:—]

ifying agents is the added cost involved. It is therefore usually recommended to resort to the well-known wine fining agents, tannin and gelatine, to effect preliminary clarification.

The results of previous work indicated that the adoption of enzymatic clarification was likely to be important when dealing with juices from South Australian Grapes. Trials were therefore set up to compare the relative merits of the enzyme, gelatine: tannin, and colloidal clay as fining (clarifying) agents for Grape juice. Unfortunately, egg albumen and milk casein were not included in this trial, but there is no reason to suppose now continued hereunder:-]

Preliminary Clarification of the Juice.

Grape juice ferments with disconcerting rapidity, especially during the hot weather usually experienced during the months of February and March. It is during this period that Grapes would be harvested in South Australia for the commercial production of juice. This fermentation develops automatically in the juice through the agency of yeasts naturally occurring on the Grapes, despite the fact that large numbers may have been removed by washing have been removed by washing the fruit prior to milling. The prevention of automatic fermentation by the removal of yeasts presents one of the most difficult problems associated with the commercial production of fruit juices and Grape juice in

Unfortunately, Grape juice, due to its high viscosity, does not readily lend itself to filtra-

The yeasts may be destroyed by heat treatment and later re-moved from the juice after a period of storage by decanting off the clear liquid. However, this heat treatment of the juice in contact with the pulp parteurisation.

The difficulties associated with filtration or with centrifuging are largely due to soluble pectins contained in the juice. These pectins render the juice very Filtragol and Pectinol gave slimy and difficult to filter. The similar results, but twice the soluble pectins may be split to quantity of Pectinol was requirsimpler products by active pectinose preparations, such as Filas Filtragol. It might be mentragol or Pectinol, and the juice tioned here that Filtragol costs reduced to such a condition that just twice as much as Pectinol reduced to such a condition that just twice as much as Pectinol it may be handled readily by and the former is now unprocentrifuge or filter and the curable.

yeasts removed before fermen- In this trial the white juices

but there is no reason to suppose that they would have proved superior to tannin: gelatine, although they are mentioned as being employed for Grape juice in the United States of America.

The experimental work in this part of the investigation was divided into two parts.

In part I. both red and white juices were put up in 500 ml. glass cylinders and treated with varying amounts of Filtragol, Pectinol, gelatine: tannin and bentonite (colloidal clay). Blanks were included in each series of trials, which comprised 500 ml. lots receiving (a) no addition. (b) SO₂ only, (c) tannin and SO₂, (d) tannin only. The samples not treated with SO₂ all fermented before the clarifying agents had produced any clarifying action at room tempera-ture. It was also noticed that those juices receiving no SO₂ darkened appreciably in color and underwent flavor change

In this set of trials Filtragol 0.1 per cent. and Pectinol 0.2 per cent. gave by far the best results, the treated juices being quite clear and showing a well-defined and compact de-

Tannin: gelatine and bentonite gave little improvement in ried out carefully under controllated conditions, viz., by flash paste gave little improvement in ticles imparts an undesirable clarity over that shown in the cooked flavor, unless it is caruntreated samples below 4 oz. ried out carefully under controllation: 4 oz. gelatine or 1½ lb. bentonite per 100 gallons juice. tannin: 4 oz. gelatine or 1½ lb. bentonite per 100 gallons juice. When such large amounts of these substances were used, the deposits made up more than half the bulk treated and did not

yeasts removed before fermentation commences.

The principal and only objected juices to the enzyme treattion to the use of enzymatic clarument and cleared more readily.



Grapes growing in South Australia

In part II. of this clarificationcent. of the enzyme preparation study an attempt was made to preferably left overnight and the clear up the practicability or cleared juice racked off the de-otherwise of gelatine: tannin posit. The enzyme preparation fining for Grape juice by making should be well stirred into the a number of semi-commercial juice with an efficient agitating a number of semi-commercial scale trials in comparison with the pectinase method. The results obtained here were overwhelmingly in favor of the pectinase method and demonstrated clearly the impracticability of gelatine: tannin as a clarifyor getatine: tannin as a clarifying agent for Grave juice from South Australian fruit. In this experiment the treated juices were filtered through a small Seitz non-pressure cylindrical wine filter using loose pulp, viz., Begerit No. 5.

The pectinase treated juices, both red and white, filtered up to 20 times more rapidly than those treated with gelatine: tannin and the filtrates were much superior in degree of clarity. It was quite evident that the employment of an enzymatic clarifying agent is essential to the successful handling of Grape juice. For this reason we can confidently recommend the following procedure. Treat the must after crushing with a dose of sulphur dioxide equivalent to 2 oz. Potassium Meta bisulphite per 100 gallons of idice or 4 oz. per ton of fruit. If the fruit is warm when crushed this quantity of SO₂ can be safely doubled tity of SO₂ can be safely doubled. In some quarters the opinion is held that SO₂ tends to neutralize the flavor of the juice. The use of SO₂ for delaying the onset of fermentation is open to criticism on this account. However, our experience at Roseworthy, experience at Roseworthy, limited as it is, does not substantiate this view. It is admitted, however, that more definite data are required on this aspect of the handling of the juice. If SO₂ is omitted it is essential to

nowever, that more definite data are required on this aspect of the handling of the juice. If SO₂ is omitted it is essential to wash the Grapes before crushing. Should SO₂ be used the washing of the fruit is not essential.

Place the juice in a tall narrow vat or vats provided near the base with two taps, the top one being placed at a sufficient distance from the bottom of the vat to permit the clear juice to be racked off the deposited sediment. The juice is treated with the required drive usually 1 nore 152 Queen St. Melb. C.I. Phone: F 2287 152 Queen Et. Melb. C.I. Phone: F 2287 152 Queen be racked off the deposited sediment. The juice is treated with the required dose, usually .1 per 452 Queen Bt., Melb., C.1. Phone: F 2387

device. This should be repeated after one hour. Deposition of the sediment will take usually from 8 to 12 hours.

Filtration.

The juice can now be handled by a filter. Several types of fil-ter may be used for the pur-pose, i.e. (a) an alluviation filter employing loose pulp or diato-maceous filter aid, (b) filters em-ploying moulded composition pads or (c) a suitable filter press. We believe that a good centrifugal would be the most suitable machine for the preliminary clarification of the juice. Many South Australian wineries have continuous operation centrifugals installed. In a centrifugal the deposit also possibly could be handled and higher total yields of juice secured.

Stabilization of the Juice.

For the purpose of stabilizing For the purpose of stabilizing the juice, the manufacturer has the choice of two methods of handling, viz., heat sterilization of the juice or germ-free filtration. The former method is not very highly regarded for Grape juice as it is said to impart a somewhat cooked flavor to the juice. Experience elsewhere, however, has shown that this need not necessarily be so if the heat treatment is carried out under carefully controlled condiunder carefully controlled conditions, viz., by flash pasteurizing for a few seconds at a temperature of 165 deg. to 175 deg. F.

Grape Juice Investigations (cont'd)

reason, in our experiments, we used the cold filtration method (Seitz plan). The successful application of this method in the Distinction is made by by trained technicians. However, it is claimed by some to be

cord variety is used almost exclusively. The "foxy" flavor of this variety to a large extent masks the cooked flavor of the juice. In this report it is impossible to give complete details of the two methods. However, from the point of view of general interest flow sheets of the two methods are given to show the general sequence of opera-

Two modifications of the cold method are given, viz., the Seitz method (used in our experiments), and the Seitz-Boehi method. The latter is the one used by the large co-operative

and immediately cooling to near. The chief advantage claimed original temperature. For this for the heat process is its adap-The chief advantage claimed tion to small scale operation and

Distinction is made between the Seitz and the Seitz-Boehi processes, but each has certain commercial sphere offers certain difficulties, and we are of the opinion that the process, to be successful, requires the use of method requires the use of special glass-lined steel vessels withstand a high presable capital outlay and operated made to withstand a high pressure of carbon dioxide of about 120 lb. per square inch at 50 deg. the only satisfactory method of making a really high-class tected with this pressure of CO

lowing publications:—a. "Technical Comm

- b. "The Preservation of Fresh Fruit Juices," Joslyn, Marsh and Tressler, published by the Avi Publishing Co., New Avi York.

pend very largely on the recov-Communication ery of by-products in the form

No. 11 of Imperial Bureau of Horticulture and Plantation Crops," by V. L. S. Charley and T. H. J. Harrison (obtainable through McGill's Newsagency, 183 Elizabeth-street, Melbourne).

"The Preservation of Fresh Fruit Juices," Joslyn, Marsh Fruit Juices, "Joslyn, Marsh Fruit Juices," Joslyn, Marsh Walkerville.

"Fruit Juices and Syrups," production of cream of tartar in Australia, as insufficient is produced to meet our own Australia, 1939, by V. L. S. Charley. making a really high-class Grape juice.

For the time being small manufacturers would be better advised to use the heat sterilization method. This method is the one chiefly used in U.S.A., where large quantities of Grape juice are marketed. In U.S.A. the Concord variety is used almost except advised are considerable are marketed and the plant is pressure of CO₂ to the juice will keep indefinitely. Considerable quantities of CO₂ the juice will keep indefinitely. Considerable quantities of CO₂ the juice will keep indefinitely. Considerable quantities of CO₂ the juice are used and the plant is costly. Glass-lined tanks are expensive and we understand that it is general practice to use steel condition of the fruit when hartanks coated on the inside with one of the bituminous preparations now on the market. The juice will keep indefinitely. August, 1939, by V. L. S. Chartale, Vol. AIIVI., No. 5, August, 1939, by V. L. S. Chartale, Vol. AIIVI., No. 5, August, 1939, by V. L. S. Chartale, Vol. AIIVI., No. 5, August, 1939, by V. L. S. Chartale, Vol. AIIVI., No. 5, August, 1939, by V. L. S. Chartaley. Considerable quantities of Grape juice are used and the plant is costly. (2) The quality of Grape juice is influenced considerably by wine industries of France, Italy, are no longer available. Any factory handling Grapes should and climate of the area in which exploit this product to the the juice will keep indefinitely. (2) The quality of Grape juice will keep indefinitely. (2) The quality of Grape juice is influenced considerably by wine industries of France, Italy, are no longer available. Any factory handling Grapes should and climate of the area in which exploit this product to the the juice will keep indefinitely. (2) The quality of Grape juice are used and the plant is costly. (2) The quality of Grape juice are used and the plant is costly. (2) The quality of Grape juice are used and the plant is costly. (2) The quality of Grape juice are used and the plant is costly. (2) The quality of Grape juice are used a

Flow Sheet of the Cold Process. Grapes—sound, cool and clean at 9-12 deg. Bé.

Pressing (small dose of SO2 may be used)

Preliminary clarification (Enzyme preparation)

Decanting off deposit

Crystal clear filtration (alluviation filter or centrifugal, or both)

Seitz Process

Germ free filtration

Storing in cool to deposit tartar

Germ free filtration into sterile containers

Seitz-Boehi Process

Impregnation with CO2 in suitably lined steel pressure tanks

Storing to deposit tartar

Removal and recovery of CO:

Germ free filtration into sterile containers

Other methods are available for preparing Grape juice, but these are patented processes about which few details.

Summary.

(3) It is evident that the pre- a commodity which is end of Grape obtained from the Grape. Study of the production of juice from South Australian It is suggested that Grape juice are discussed.

For a more detailed account of production of production of production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the production of juice from South Australian It is suggested that the pre- a commodity which is end of the prod about which few details are the processes involved we adsuitable pectinase preparation assisted over a difficult period, the development of the Grape clearing and filtration of the projuice and by-products industries duct. The additional cost in-curred by the use of the clari-fying agent would be more than offset by the saving of time and labor involved.

> In the instance of Grapes, further trials are needed to provide clarification data for different varieties at varying stages of ripeness.

A suitable enzyme prepara-tion is now probably unobtain-able in Australia in commercial quantities.

- (4) Blending in most cases greatly increased the attractiveness of Grape juice.
- (5) The adjustment of the acid content of Grape juices of low acidity greatly improved their flavor. Citric acid was used for this purpose.
- (6) Muscat varieties promise to be useful for imparting special flavor characteristics.
- (7) Grape juice improves in cold storage and deposits tartar.
- (8) The exploitation of by-products is emphasized. The successful exploitation of Grape juices in Australia, irrespective of other considerations, will de-instead of by weight.

(3) It is evident that the pre- a commodity which is entirely

It is suggested that of the ways in which the wine industry in Australia might profitably be juice and by-products industries along sound lines offers definite possibilities of success.

WESTERN AUSTRALIA.

Excess of Apples Beyond Local Market Requirements.

Publicity Campaign Being Organised.

Sales by Count or by Weight?

Despite continued dry weather which has reduced crop pros-pects, it is expected that there will be a substantial surplus of high quality Apples above the normal local market requirements.

An educational publicity campaign is to be conducted.

Mr. T. Price has been elected chairman of the Publicity Committee, with Mr. D. J. Sutcliffe deputy chairman. Other members are Messrs. F. W. Lantzke, B. Mercer, and G. Bloomfield.

Consideration is being given to the sale of Apples by count

Flow Sheet of the Heat Stabilization Process.

Grapes 12-13 deg. Bé.

Crushing (stalks separated)

Heating Must (steam jacketed stainless steel or aluminium kettles 140-150 deg. F.)

Pressing Marc (hydraulic rack and cloth presses in U.S.A.)

Sterilizing (175-185 deg. F. into stone jars or carboys after preliminary straining)

Storage (cool cellar or refrigerated chamber to deposit tartar)

Racking

Filtering and fining (egg white, casein or gelatin: tannin)

Bottling and pasteurising-30 minutes at 175-185 deg. F.

Fruit Trees & Fruit Tree Stocks

Splendid Stock of Healthy Plants Available

APPLES, PEACHES, PEARS, PLUMS, APRICOTS, CITRUS, BTC., PACKED AND DESPATCHED TO ALL PARTS OF THE WORLD,

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GRAPES NOT TO ROT ON VINES.

Wine Vintage to Proceed.

Mr. Anthony's Tour of S.A. Areas.

ACED WITH THE PROS-PECT of many thousands of tons of Grapes being left to rot unharvested on Australian vines as a result of the collapse of our export wine market aue to the war, the Assistant Minister for Commerce (Mr. H. L. Anthony) made an extensive tour of the Grape-growing areas of South Australia, the home of the Commonwealth's wine industry.

subsequently Mr. Anthony expressed gratification that arrangements had been made for the processing of practically the entire crop this vintage.

"The economic stability of the Commonwealth will be impaired and widespread unemployment will be caused if we permit any of our hard-hit primary industries to go to the wall as a result of the war," said Mr. An-

thony to-day.

Australia normally consumes
4,000,000 gallons of wine, and
4,000,000 gallons are exported. Shipping difficulties have reduced exports at present to an infinitesimal figure. Despite this, it was announced, subsequent to a conference between the Assistant Minister and the Winemakers' Association of South Australia, that the wineries will again purchase from the grow-ers this season's Grape harvest, and that which cannot be disposed of in Australia will have to be placed in storage.

Mr. Anthony intimated that

he planned to summon a conference of representatives of all sections of the industry to evolve plans well in advance to deal with difficulties that threatened to arise with the approach of the 1942 vintage.

Growers Relieved.

News that all, or virtually all, of this season's crop of wine Grapes would be harvested spread quickly, relieving the grave anxiety of growers throughout the wine-producing

In addition to conferring with the Winemakers' Association while in Adelaide, Mr. Anthony consulted representatives of the Grape Growers' Council, the Federal Viticultural Council and the Australian Wine Board. Later he inspected vineyards, Later he inspected vineyards, wineries and distilleries in the Morphettvale, Noarlunga, Mt. Barker, Lyndoch, Barossa, Tanunda, Nuriootpa, Waikerie, Barmera, Berri, Kingston and Renmark areas.

Mr. Anthony expressed himself as greatly impressed at the extent of the wine industry. He

extent of the wine industry. He had visited town after town and thickly settled areas dependent almost wholly for their very existence on the industry, and in the Renmark-Waikerie area more than a thousand returned soldier settlers were engaged almost exclusively in growing wine Grapes.

THE MARKET GROWER .

Tomato Growers Organising

HE TOMATO GROWERS' pressed for he has indicated that Association of Victoria is 'Tomatoes will be brought under vigorously at work. The President is Mr. Lindsay Pither, and the Secretary is Mr. A. T. B. Goyen, of Shepparton.

A summary of the activities of the Association is supplied by the Secretary as follows:-

(1) The chaotic conditions that prevailed during the 1939-40 Tomato season were probably the direct result of the high prices of the previous year. Growers in the main factory To-mato districts had forced on them the necessity for complete organisation and co-operation. To-day we have active association at Shepparton, Bendigo, Koondrook, Echuca, linked together in a Victorian T.G.A., while Quantong and Portland are co-operating.

(2) Organised Tomato Growers have this year faced the organisations comprising their main customers. After the conference in November, 1940, a sort of stalemate ensued. This was broken when the growers pressed for the action that resulted in an abortive meeting in January. A manufacturers' representative eventually notified the Association that its members should deal individually with each individual company. The growers held a monster meeting and cut off all supplies except those to market. This collective activity was thus to be answered by collective action.

(3) Then followed a period of about 14 days, during which patrols were set up and every effort made to stop supplies reaching the factories. Stern action was necessary as it was considered that unnaturalized foreigners were being intimidated and used to the detriment of local grow-

This "strike" seems to be an occurrence unique in the history of primary production. The incident closed when the level-headed Minister of Agriculture conferred with the manufacture of the conferred with the manufacture. ers—whilst growers' representatives cooled their heels in the outer rooms. When the growers entered on the scene, the manufacturers had flown. The Minister appears to have been very sympathetically im-

the Marketing Act. So the fight progressed another stage. So the Picking recommenced at slightly increased prices; and the growers met again to prepare for the next steps.

Organisations in the various districts and their executive officers are as follow:—

Bendigo: Pres., Mr. A. H. de Grandi; Sec., Mr. S. McKin-non, Baxter-street, Bendigo.

Echuca, Koondrook: Pres., Mr. Reed, Koondrook.

Portland: Pres., Mr. D. M. Millan, Alleshee; Sec., Mr. M. Barrett, Portland.

Quantong: Mr. C. H. Jost, Quantong.

Shepparton: Pres., Mr. L. Pither, Shepparton East; Sec., Mr. A. T. B. Goyen, Shepparton.

Tomato Board Sought.

Recently, Mr. Hollway, M.L.A., Victoria, attacked Mar-keting Boards generally, and in-cluded reference to Tomatoes.

Mr. Pither promptly replied stating that the Tomato growers did not have a Marketing Board and that this was probably the cause of their plight: further, that the growers were organising with the object of securing a Board as soon as pos-

Offer from Leeton, N.S.W. 3/3 per Case on Growers' Farms

The offer from the Leeton The offer from the Leeton Cannery of 3/3 per case on the farms for canning Tomatoes, was accepted by the Shepparton Tomato Growers' Association at the end of February. The President, Mr. L. Pither, said the Leeton Cannery sought to purchase 2,000 to 4,000 cases, and the felt super there were sufficient. he felt sure there were sufficient good quality Tomatoes available to fulfil the order.



ONION CROP DOWN.

Spread Deliveries Advised.

Survey figures released by the Victorian Onion Marketing Board at its meeting on February 25, estimated a reduction of tons as compared with last year in Brown Spanish and Globes.

After allowing for deterioration estimated on a similar basis to last year the quantity available for marketing from now onwards would not exceed 16,000 tons.

The estimated marketable Onions in 1940 was 23,000 tons; the accuracy of this estimate was borne out in the total sales of 22,000 tons when supplies then became exhausted. As well as a reduced production in Vicaria requests show as a reduced production in Vicaria requests show as a reduced production. toria, reports show considerable light yields in other States, and heavy demand on Victorian supplies may be expected.

Summed up, the production was well within normal Australian requirements, and to maintain values growers would be advised to avoid oversupplying the market at present, but spread their deliveries over the year, when values were likely to improve, he said.

SOWING AND PLANTING.

March Hints.

Sow seeds of carrot, kale, Kohl Rabi, Leek, Parsley, Parsnip, Turnip. Plant seed or seedlings of cabbage, celery, lettuce, onion, brussels sprouts, red and silver beet and cauliflower.

Clear away herbage of Summer crops, dig and lime the ground.

Hoe between growing crops and apply a mulch of decayed manure. Apply waterings of weak liquid manure to develop-ing crops of Cape Gooseberry.

Sow early peas, such as William Hurst, and follow with Greenfeast and Richard Seddon.

Greenfeast and Richard Seddon.
Grow mustard and cress all the year round. These grow readily in all districts, even where water is scarce. Keep up a succession by sowing a pinch of seed each week. The green leaves are pleasantly flavored and rich in vitamins.

Large Quantities in all Leading

OUR CITRUS TREES—buds supplied by the BUD SELECTION SOCIETY—are well grown on virgin soil, and should give every satisfaction for profitable returns.

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ESTABLISHED 1901.

THE MARKET GROWER-(Continued).

Success with Vegetables

SEEDBED MANAGEMENT.

should seedbed changed to a new position each year—on a slight slope, if possible. It should be sheltered from the wind and free from risk of flooding by storms. The soil should be a friable loam, not

About three months before seeding time, the site and surrounding area should be cleared of all growth and rubbish likely to shelter insects. The bed must be dug to full-fork depth and all clods broken and stones removed. The bed width usually favored was three feet.

When digging was completed, the soil should be levelled with a rake. Waterings should be given at sufficient intervals to cause weed seeds to germinate.

The first drill was made by using the edge of this board at

CUCCESS IN VEGETABLE ing over the bed again with a growing depends upon the rake. This allowed fresh soil to methods employed and the be brought to the surface. Watering and the use of the Mr. R. G. May, of the Bathurst (N.S.W.) Experimental Farm recently. ciently consolidated, weed seeds destroyed and the important surface layer aerated and in the best condition to receive the seeds.

The surface of the bed should be about two inches higher than the surrounding soil.

Seeds and Sowing. Obtain high quality seeds from

best sources.

Before sowing, a light dressing of superphosphate should be worked into the seedbed soil with a rake. The seed should be sown in rows from four inches to six inches apart. These rows or drills were readily made by using a half-inch board of the

the end of the seed bed, then using the width of the board as a spacer. The edge of this board should be pressed and sawn across the bed to a depth of half an inch. When sufficient drills had been struck, the seed should be sown at a spacing which be sown at a spacing which would avoid too thick a stand. After the seeds were sown in these drills, they should be covered with a little soil or sand, and topped off with well-rotted horse, sheep, or farmyard ma-nure, free from weed seed. The seed beds should be water-

ed daily, preferably in the morning before the sun became too hot. The damping-off fungus (Pythium debaryianum) could be controlled by sowing the seed in rows. This fungus lived near the surface of the ground, extending from plant to plant, and had caused severe losses to growers whose seed beds did not permit control measures to be adopted. Control could be obtained by stirring the surface soil, thus opening it to sunlight and air, and also by reducing the amount of watering given.

CUTTING THE TAP ROOTS.

About three weeks before transplanting, a knife or suitable blade should be used to undercut the plants, about one and a half or two inches below the surface. This operation cut the tap-root, and caused numerous fibrous roots to form. It also checked the soft growth of the plants, with the result that they transplanted well. The plants should be freely watered for a few days after this operation, to encourage the fibrous root development. The waterings should then be reduced, and the plants given longer periods of exposure to the sun to harden them off.

The correct use of the dibble or transplanting tool used was important. After the hole for the plant was made the tool should be used so that the soil was compacted around the roots of the transplant, and not, as was sometimes the case, around the stem near the ground level, leaving the roots in a hollow low-er down. The rootlets must be in very close contact with the

GROWING BEANS FOR SEED.

Profitable at £45 per Acre.

The growing of Beans for seed in suitable districts is profitable, states Mr. W. H. Whan, Experimentalist, N.S.W. Department of Agriculture. Bathurst was one suitable district. At 15 bushels to the acre and £3 per bushel for a 5 months' crop, returns were satisfactory stated Mr. were satisfactory, stated Mr. Whan; sometimes the price was £5 per bushel. Skill was needed in cultivation, rogueing, irrigation, harvesting, and threshing.

THE CAROB BEAN.

A Good Fodder Tree.

This Bean makes a wonderful fodder crop and is particularly useful in dry seasons. Stock will leave the choicest pastures to get the Beans as they fall from the trees, says Mr. A. Lawrence, in the "Graziers' Journal," Queensland. He adds that if he had known what a splendid fodder the Carob produces he would have planted many acres and no drought would have worried him.

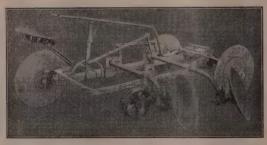
Even in good seasons, surplus fodder crop and is particularly

Even in good seasons, surplus Beans can be used for fattening stock. Another writer from N.S.W. says that he gets 5 to 6 three-bushel bags from a large tree each wear and it provides tree each year, and it provides ornamental foliage and good shade as well.

MAIZE POOL CLOSING.

The Secretary of the Maize Marketing Board advises that the pool of the 1940 Maize crop will close during March and that will close during March and that producers should forward stocks to be sold now, otherwise they will go into the 1941 pool, with probably lower prices. All Maize on hand has been sold at current prices, and all Maize received before the closing date will be sold at this year's contract price. March 15 is the tentative closing date. tentative closing date.

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CITRUS CROPS, SOUTH AUSTRALIA.

Navels and Valencias Light.

Citrus crop prospects for S. Australia are estimated as fol-M.Ag.Sc., Chief Horticulturist:

Generally throughout all the citrus areas in South Australia citrus areas in South Australia the prospective crop for 1941 is considerably below that harvested in 1940. In the case of Washington Navel Oranges which constitute the chief variety, expectations are from 20 50 page and below 1960 pages. 30-50 per cent. below 1940 crops according to district. However, in some areas, individual properties are carrying fair crops, almost equal to last season's.

Valencia Oranges are very light throughout, also seedling varieties and Mandarins.

Grape Fruit, although not grown extensively, will probably be 30 per cent. down on 1940 figures.

Lemons are estimated to yield approximately 30 per cent. less than normal.

Although crops are remarkably lighter than normal, figures will be increased somewhat, due increased size. Fruit is already showing signs of being very large and this will, to a limited extent, offset the light

At the present time trees in some districts are flowering freely.

> N.S.W. CITRUS CROP PROSPECTS.

Good Rains Assist Crops.

PROLONGED DRY WEATHER prior to December, 1940, adversely affected citrus trees. Following heavy rains in December and January there was considerable. January there was considerable shedding of fruit. Because of the increased size of the fruit the aggregate number of bushel cases should exceed that of last

The forecast compiled by Mr. A. A. Watson, Chief, Division of Marketing, N.S.W., Dept. of Ag-riculture, is as follows:—

Forecast for 1941.

Navels Valencias	0		,00	00	, Dublious,
Other		98			2,290,000
Mandarins .					277,000
Lemons Grapefruit .					256,000 64, 000
Total					2,887,000

VICTORIAN CITRUS CROP PROSPECTS.

The Victorian Department of Agriculture advises that except for Grape Fruit and Lemons, the indications are that the 1941/42 crop of citrus fruits will be very

Victorian News and Notes

Victorian Cool Stores Association

Report of Special Meeting

on February 7, when the President, Mr. W. P. Mair, presided, and the following delegates and the following delegates were present:—Messrs. J. H. Tainton and C. F. Fankhauser (East Burwood), F. A. Bloom (East Doncaster), J. H. Lang and J. H. Ely (Harcourt), N. L. Whitten (Hastings), W. J. Williamson (Portland), T. W. White (Somerville), J. Lillywhite (Tyabb), T. J. Byrne (Wantirna), N. Lechte (Lechte Bros.). Mr. Ward, Superintendent of Horticulture, represented the Department of Agriculture. culture.

Following a letter requesting the reduction of size required for Winter Nelis Pears to 21, the Nelis Pears Winter Coles, the wrote Acquisition Committee that this concession could not be acceded to.

In reply to a letter to the Minister for the Army asking that fruit pickers be exempted from call up during the picking season, the Secretary advised that all lists took into consideration the claims for reserved occupations, but that each claim is considered upon its merits and that the onus is upon the persons concerned. They should apply for such temporary exemption as was required to the Com-manding Officer of their unit or to the Area Officer in their district.

The question of the supply of packing cases was dealt with in a letter from the Apple and Pear Board. Delegates reported that there would be a dearth of cases, and it was decided to urge the Board to hasten the return of cases to growers or to return of cases to growers or to supply the equivalent numbers from stock. Also that the Acquisition Committee fix a reasonable selling price at which growers can buy cases. Further, that the Committee purchase cases in large quantities for release to growers.

In view of the anticipated glut that will follow the heavy crop of Jonathans, it was recom-mended that the Acquisition Committee dispose of surplus fruit by free gifts to military

light. The present estimate for the Orange crop is 435,000 bushels, which is only about half of the quantity of last season. Grape Fruit is estimated at 30,000 bushels. Mandarins very light at about 5,000 bushels and Lemons are expected to yield 165,000 bushels. It is anticipated, however, that a later revised estimate for Lemons will increase the present estimate.

SPECIAL MEETING of camps and public schools. Also the above Association that Apples be sold in half cases was held at Melbourne for the convenience of consumers with a view to increasing greater consumption, and that any other practical means of clearing the market of surplus fruit be

> A letter from the Organising Officer of the forthcoming Queen Carnival was read. It was decided to recommend to all members of the Association that the Primary Products Section of the appeal should be strongly sup-

After discussion of suggested After discussion of suggested venues for the next annual conference, the Secretary was instructed to make enquiries regarding Cowes, accommodation facilities, tariff rates, etc., and to make suitable arrangements and fix the date. Matters Oranges as has been conducted Mailer at Melbourne are with to Diet"—ine nutritious.

for inclusion on the agenda to be submitted at an early date.

Considerable opposition was expressed to the announcement that 1/- and 1/6 per tree was to be paid to growers for varieties of Apples and Pears that are not on the list of those to be acquired. The amount was regarded as being absolutely inadequate. The opinion was expressed that an earlier announcement should have been made, as growers had been put to considerable expense in spraying and cultivation, which would not have been incurred had the announcement been made earlier. The legality of the payment was also questioned.

FRUIT IN THE DIET.

The value of Apples and Oranges as part of the daily diet has been established by tests conducted by Dr. Ramsay Mailer at opportunity diets in Melbourne suburbs. The tests are with the now famous "Oslo Diet"—inexpensive but wholly

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SULPHATE of AMMONIA is INDISPENSABLE in a WELL-KEPT ORCHARD

VICTORIA (contd.)

Horticultural Conditions in February, 1941

has been completed. The fruit was of excellent quality. Large crops of Jonathan Apples were almost ready for harvesting at the end of the month—a first quality crop. On some trees, woolly aphis has been prevalent because of the diminished activities to the parasite wasp and as a result, fruit was beginning mediately. to drop. Red spider is also very obvious on some orchards, and it will be necessary for most Apple and Pear trees to receive a thorough spraying of red oil during the late Winter for the control of these pests.

Codling moth activity increas-

Codling moth activity increased during the month. Growers were advised to apply a protective cover spray on all varieties of Apples and Pears not ready for immediate picking. At this stage, a spray of white oil (one gallon in 80) was advised because of its effectiveness as an ovicide and also because it obviovicide and also because it obviates the excessive residue which would result from a lead arsenate spray.

In the vine growing areas, picking of the Currant crop has been almost completed. Rain in January and again in February caused considerable damage, and quality and yield are below nor-Sultana harvesting has commenced. A greater quantity of Sultanas than usual was FRUITGROWERS' DEFENCE disposed of on the fresh fruit market this season. A rapid increase in the sugar content has occurred and the drying and processing of fruit is in progress.

By an oversight which is regretted the name of the Fruit-growers' and Primary Producers'

N a report by the Department should inspect the drying fruit of Agriculture, and review- regularly to make certain that ing horticultural conditions the dipping is being carried out in Victoria during the month of February, it is stated that harvesting of the W.B.C. and Packham Pears in Northern areas quick dipping: yield less than last season, but quality good. Walthams and Gordos are reaching the market, and satisfactory prices are being received. Some increase of the vine mite has been noticed on the Gordo and Doradillo varieties; for the control of this pest a sulphur dust must be applied im-

In citrus areas, some increase in red scale has occurred. Fumigation is still in progress in the Mildura district, but in the Swan

of labor, but in Southern districts, most growers are experiencing difficulty in obtaining sufficient labor for picking.

VICTORIA.

The official estimate is that the coming Apple crop will approximate 3½ million bushels—probably a record.

In the Harcourt district alone the crop is estimated by local growers to be between 800,000

and 1,000,000 bushels.

In the absence of rain an additional watering by irrigation is needed.

LEAGUE.

The mixed dip is favored for Defence League of Australia early rack fillings, but both the mixed and cold dips are used later in the season. Growers E. W. Buttle, Donvale, Victoria.

During the Spinach season, Asparagus led in California the Oakdale Cannery (Calif.) vegetable production last year, employs 125 hands on Spinach with an acreage of 76,750 acres, alone. Another large canner of Spinach is at Armona, in California. So evidently Pop-eye is acres, and Potatoes 33,300 acres. doing good work.

seeds is now used in dyeing textiles. Though it has a bitter taste, it can be removed with caustic soda and used as an oil on vegetable seeds. Florida last year produced 90,000 lb. of this

OVERSEAS FRUIT BRIEFS.

A Turnip weighing $16\frac{1}{2}$ lb. was reported from a Californian

Oregon State College conducts a special course for commercial fruit canners every year.

The Union Pacific Railway Company recently ran a Potato improvement train through three southern States, with lectures and exhibits complete.

Engineers of the University of California have perfected a machine that will plant single Beetroot seeds individually.

By adding copper sulphate to the soil, growers in the River-side area have increased Orange production.

Over 41 million acres of land future use.

Oil extracted from Grapefruit tising in Sonoma County, Calif., to root out old fruit trees with tractors.

VALUE OF FRUIT JUICES.

A Doctor's Advice.

The Minister for Commerce (Sir Earle Page) is a medical man. He urges people to drink less tea and to replace it with Apple juice, Orange juice, or Pineapple juice. The health of the people would thus be improved. proved.

Also, he asked, could not those who liked their nobbler of whisky change over to light wines.

Primary industries and the national exchequer would benefit. In the first year of the war Australia imported tea to the value of £2,543,104, and whisky to the value of £895,308.

The question as to whether pruning methods have been too severe in the past is raised as the result of a series of tests at the Bathurst, N.S.W., Experiment Farm.

100,000 gallons of Apple juice in California are eroded and will have been sold by orchardists to have to be treated to ensure a brandy company for fermenta-

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Dried Fruit News

How Crops are Estimated

Maturation and Growth

N a very informative address! Lyon recently covered many interesting subjects of value to growers, reported the "Murray Pioneer." He explained how say that a practical response has Pioneer." He explained how the microscope played an im-portant part in assessing the prospective crop by revealing the potential fertile buds. From this fertility and bunch count permits the officers to estimate what the season will yield.

Maturation Tests.

Maturation tests made for the past few years were mainly of past few years were mainly of value when seasonal development was unnatural. "The peculiarity of the past two seasons in this respect have made the maturity tests of practical value," he said. "In 1939 the advice given to pick early proved of some practical value. Last year maturation was late and we year maturation was late and we were fortunate in having wonderful March weather. This year, vine development is quite normal and natural; bunches are a little ahead in size and development in the old Mildura settle-ment over that to date for the past 12 years.

Vine Yield.

"In reviewing the tonnage per acre in five year periods, there has been an increased yield in the Mildura settlement of 8 cwt. per acre over the whole area. Perhaps a large contributing factor to account for this is the complete drainage system which has been installed in that settlement. Better cultural practices have also helped in this respect. There is a concerted opinion among growers that the nitro-gen supply obtained from cover crops is sufficient to meet the demands of the vine, but additional nitrogen in every trial has been responsible for a higher tonnage per acre.

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MELBOURNE & SYDNEY.

"The disadvantage resulting to growers in the Mildura in additional nitrogen through a (Victoria) area, Mr. A. V. little later maturity and lowersay that a practical response has been obtained by additional nitrogen over and above that obtained from cover crops alone.

Currants.

"Last year," he continued, We experienced a premature leaf fall in these vines. We must un-derstand that the vines were carrying a heavy crop and they were struggling to mature this crop. This means that the carbohydrates were depleted and in many cases the vines were not able to stand up to the strain of maturing the crop and at the same time building up a reserve of carbo-hydrates. We went into the Winter with cover crops growing poorly and salt coming to the surface without the counter-balancing effect of Winter rains, and this has been responsible to a great extent to the

prevalence of white leaves in | Currants this year. It is mainly | a nutrition problem due to the rise of injurious salts.

Vine Growth.

"The growth rate of an individual shoot on a vine depends upon the rate of growth in early Spring, when the initial growth commences. If we measure a shoot early in the season and measure the same shoot when growth has ceased we find that the same ratio of growth has been maintained right throughout the season You cannot read at main capital cities and producing centres, plus the usual additions for shipments to other points.

Currants: 4-Crown, 8\frac{3}{8}d.; 2-Crown, 7\frac{7}{8}d.; 1-Crown, 7\frac{7}{8}d.; 3-Crown, 8\frac{7}{8}d.; 2-Crown, 9\frac{1}{8}d.; 3-Crown, 8\frac{7}{8}d.; 2-Crown, 9\frac{1}{8}d.; 1-Crown, 8\frac{7}{8}d.; 2-Crown, 9\frac{1}{8}d.; 2-Crown, 9\frac{1}{8}d.; 3-Crown, 8\frac{7}{8}d.; 2-Crown, 9\frac{1}{8}d.; 3-Crown, 9\frac{1}{8}d.; 3-Cro out the season. You cannot force a small shoot to become a vigorous one, but the same proportional growth rate will be noted until the shoot stops grow-

DRIED FRUITS IN W. AUST.

The annual report of the W. Aust. Dried Fruits Board states that in 1940 the production was as follows (in tons):—Currants 3,005, Sultanas 436, Lexias, 274, total 3,715. The voluntary

DRIED FRUIT PRICES.

The following prices have been announced by the A.D.F.A. to operate from March 1, 1940, at main capital cities and pro-

points.

| Currants: 4-Crown, 8\(^3\)d. per lb.; 3-Crown, 8\(^3\)d.; 2-Crown, 7\(^7\)d.; 1-Crown, 7\(^3\)d.; M.F., 6\(^7\)d. Sultanas: 5-Crown, 10\(^1\)d.; 4-Crown, 9\(^1\)d.; 3-Crown, 8\(^5\)d.; 2-Crown, 8\(^1\)d.; 1-Crown, 8d.; plain, 7\(^5\)d. Lexias and Walthams, 6-Crown, 8d. per lb.; 5-Crown, 7d.; 4-Crown, 6\(^5\)d.; seedless, 7d.; 3-Crown, 6\(^5\)d.; 2-Crown, 6\(^5\)d. Seeded Raisins: 1-lb. cartons, per doz. 8/10\(^1\)t. 12b. cartons, per doz., $8/10\frac{1}{2}$; 12-oz., $7/1\frac{1}{2}$; 8-oz., 5/-; bulk, per lb., $8\frac{1}{8}$ d.; bulk (Midgets), per lb.,

DRIED FRUITS QUOTA.

The Minister of Agriculture (Mr. Hogan), has approved of the following maximum proportions of the various dried fruits agreement between the which may be marketed within A.D.F.A. and dealers worked Victoria for the season, 1941:—satisfactorily. Publicity to increase dried fruit consumption dried Sultanas, 14 per cent.; was appreciated.

Lexias, 20 per cent.; dried



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— PROMPT RETURNS

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Prunes, 100 per cent.; dried In terms of legislation in all Peaches, 65 per cent., dried dried fruits producing States, Apricots, 60 per cent.; dried each Board will now take the re-Nectarines, 95 per cent.; dried quisite steps to publish these Pears, 40 per cent. These percentages set forth the proportions of 1941 season's dried fruits which are available for market which are available for market ing within the Commonwealth. In terms of legislation in all With reference to the recent serious rain damage to the Currant damage to the Currant according to market require-



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SMALLER PACKS FOR PRUNES.

U.S.A. Favors Half-bushels.

The introduction of the Pyramid half-bushel pack for Prunes is reported to be popular. It has been tried out in the past two years by some processors who are satisfied that the American trade prefers this style. The change over followed a nationwide survey of wholesalers and retailers, and their reports strongly favored this size. It is anticipated that all packers will adopt the half-bushel method of packing.

DRIED VINE FRUITS PROS-PECTS LOOK GOOD.

In spite of heavy rains in producing areas in January, and the damage which resulted, the prospects for the 1941 season are satisfactory, Exports last season were of good volume and

season were of good volume and the carry-over small.

In 1940 Australia enjoyed a record crop of dried vine fruits of 95,450 tons, compared with the previous high record of 91,690 tons in 1938. Sultanas represented 61,988 tons, Currants 24,777 tons, and Lexias 8,685 tons. Sultanas were of particularly good quality, and a considerable portion of the pack was of the higher grades.

ALMOND GROWING.

LTHOUGH ALMONDS have not been extensively grown in Australia, expansion has increased rapidly in recent years and commercial plantings are being undertaken for the nuts instead of, as earlier, mostly for windbreaks. Importations of Almonds from overseas, whilst decreasing, are still considerable and will continue until present plantings attain production are in reduction. tinue until present plantings attain production age. In discussing this matter, the Pastoral Notes of the N.S.W. Department of Agriculture issues the following warning:—

While there would appear to be some room for expansion in Almond culture, any extension

Almond culture, any extension of the industry will need to be undertaken with due regard to such factors as (1) favorable districts, (2) suitable varieties, (3) proper cultural treatment, (4) pruning and (5) control of pests and diseases. These are essential for the profitable production of Almonds under the highly competitive conditions which will probably exist in the near future.

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Dried Fruits Rank High in Energy Value but Low in Cost

In an address delivered recently at Mildura, Mr. P. Malloch quoted figures prepared by prominent British dietitians and compared various products as related to shipping space required. Reports from London indicate a big demand for all classes of dried fruits. Australian dried fruits stored in the United Kingdom still above as United Kingdom still show ex-cellent quality and it is antici-pated that all will be absorbed pated that all will be absorbed by the Chrismas trade. 194,000 tons of dried fruits was dis-tributed between September, 1939, and July, 1940, much more than normal consumption, and including 74,000 tons Sultanas, 61,500 tons Currants, and 6,700 tons Raisins.

Mr. Malloch, however, believed that the prospects for the dried fruits industry would be dependent upon conditions after the war concluded, and at present was subject to speculation only. The total production for 1940 in Australia would be about 94,000 tons, as against 72,500 tons in 1939 and 91,700 tons in 1938. Mildura production represented a value of £2,000,000 this year, of the approximate total value for Australia of better than £3,000,000.

The distribution of the 1940 crop was approximately 48,000 tons to U.K., 20,000 tons to Canada, 5,500 tons to New Zealand, 700 tons to the East, and 16,500 tons in Australia. With 16,500 tons in Australia. With the shutting off of Mediterranean supplies and reduced quantities from Australia and South Africa, it was expected that Pritair's imports would be that Britain's imports would be down about 25,000 tons.

Quoting figures from "Food Purchases in War Time," Mr. Malloch stated that a comparison of various food products revealed the following:—

Shipping Space, Cubic Feet per

Sugar	45
Dried Fruits	50
Wheat (bulk)	50
Butter	55
Cheese	60
Fats	80
Beef	95
Bacon	110
Eggs (in shell)	120

Butter	143
Fats	
Sugar	
Cheese	
Wheat	
Dried Fruits	
Bacon	 39
Beef	 26
Eggs	 12

Average Cost per 100,000

Culotical	
Sugar	4/3
Wheat	 5/5
Fats	 8/4
Dried Fruits	
Butter	 27/3
Bacon	
Cheese	
Beef	
Eggs	 74/5

The writers had followed their analysis, said the speaker, by pointing out that sugar, while occupying the smallest shipping space in proportion to energy value and being the cheapest energy food, was not as valuable as cheese and dried fruits as food for health.

Mr. Malloch concluded his address by stating that the offi-cial ranking of foodstuffs in order of preference for importation to the United Kingdom was wheat, butter, sugar, cheese and dried fruits. We could, therefore, look forward with confidence so far as the clearance of the 1941 crop was con-

An officer's batman was go-

An officer's batman was going on leave. Giving final instructions to his deputy, he handed two bottles of medicine to him with the words:—

"This bottle is the officer's, and this is for the horse, and whatever you do, don't get 'em mixed, because when I come back you'll cop it if anything's happened to that horse."



Herbert Wilson Pty. Ltd.

WHOLESALE FRUIT MERCHANTS AND COMMISSION AGENTS

Nos. 1 and 10, Wholesale Fruit Market, Melbourne.

Accredited Agents for Victorian Central Citrus Association and Affiliated Association.

City Telephone: F 6444.

Private Phone: M 3055.

Bankers: National Bank of Australasia (Western Branch), Melb.

Market Notes and Prices

NEW SOUTH WALES.

Sydney: The following report is taken from the "Weekly Marketing Notes," issued by the N.S.W. State Marketing Bureau, for week ending February 26.

A considerable volume of A considerable volume of business was transacted in Williams Pears, both local and Vic. lots selling freely. Towards the close of the period, green lines were in short supply and values higher. Ripe fruit was plentiful at times, principally Vic. consignments, and sold cheaply. Some Packham's Triumphs commencing to arrive cheaply. Some Packham's Triumphs commencing to arrive on the market were mainly in a green, hard condition.

A wider range of varieties of Apples was available, and included supplies from Q'land, and S. Aust. Demand for and S. Aust. Demand for colored lots of Jon. and Del. of good quality was satisfactory, and there was a fair inquiry for Fanny and King David, but Tas. Worcester Pearmains were difficult to sell. G. Smiths were plentiful and available at fairly low rates.

Inquiry for both Black and White Muscatel Grapes of choice quality was well maintained, but, at times, medium lots were slow to clear. Other varieties were not sought after and some white lots were practically un-

Coastal Val. Oranges continued to clear slowly, but consignments from the Irrigation Area were in request at higher

Fairly heavy consignments of Q'land. Lemons on offer sold well at from 14/- to 18/- bush.

Considerable quantities of Pineapples continued to come | (Continued on page 2)

forward, and values were at fairly low levels. The condition of some lines was unsatisfactory, and these sold cheaply. There was a good inquiry for the light supplies of Passion-fruit, and choice lots realised higher prices.

Large quantities of simple solutions of the supplies of the

Large quantities of ripe Bananas were available, and much difficulty was experienced in clearing stocks, even at concession rates. The market for good, trade fruit was adversely affected, and values suffered a severe setback. Prospects were

severe setback. Prospects were brighter at closing and prices were inclined to firm.

Vic. Peaches constituted the bulk of supplies on offer, but some lots opened up in wasty condition. Locally grown fruit sold well and, at times, realised to 9/- half case.

Stocks of Persimmons showed a marked increase, and sold at up to 5/- half case.

Ruling rates are:-

Apples: Jon. 4/- to 9/-, G. Smith 3/6 to 6/6, Del. (Q'land) 6/- to 9/-, W.P. (Tas.) 3/- to 6/-, Fanny and King David 4/to 6/-.

Pears: Williams (N.S.W.) 6/to 10/- (ripe lines lower) per case.

Peaches: 5/- to 8/- half case. Vic., White Flesh 8/- to 12/-, Yellow Flesh 6/- to 8/- bush. case.

Plums: 2/- to 5/- (few higher).

Grapes: Black Muscat 4/- to 9/-, White Muscat 5/- to 9/-(few specials higher); other Black and White varieties 3/-

Passionfruit: Choice 12/- to

(Continued on page 26.)

Agents in the

RISBAND MANRADA

Highest Prices.

A. S. BARR

FRUIT EXCHANGE, BRISBANE, QUEENSLAND. Wholesale Fruit Merchant and Growers' Agent.

A Trial Solicited. Returns Speak for Themselves. Shipping No. 18. Established 1888. Registered Telegraphic Address: "Barr, Brisbane."

W. Arkell & Sons 1892

BRISBANE, B.12. Shipping No. 12

GROWERS' AGENTS.

Bankers: National Bank of Australasia, George St., Brisbane.



Motor Notes

SYNTHETIC RUBBER AND make 10,000 lb. of rubber per PETROL.

without. But in other countries too scientists are fast discovering adaptations that previously were not needed.

were not needed.

In U.S.A. last year 3,500,000 lb. of synthetic rubber were manufactured and other artificial compounds made from coal, lime, salt and water, sodium, and other materials. Rubber is being manufactured from buna, a by-product of coal. A factory is being erected in Louisiana to dry bearing.

Interto neglected industries.

MOTOR BRIEFS.

When lubricating a spring gets right through the bearing and oozes out on both sides. The waste is less costly than a dry bearing.

day.

Meeting War-Time Conditions. In Australia, petrol shortage is turning our thoughts to shale That Germany is feeling the pinch owing to her inability to secure enough raw materials is suggested by the frequent reports of all kinds of synthetic foods which she is using. The people have to accept these or go without. But in other countries oil, and some success is reported.

GROWERS — Consign Your Fruit and Vegetables to Agents who are Members of N.S.W. Chamber of Fruit and Vegetable Industires

Allen, Stan.
Associated Growe
Selling Agency.
Banana Growers'
Distributors.
Billett, E. J.
Black & Son.
Bragg, R.
Broadbent, R. J.
Bromley, W. E.
Bryant, J. W.
Bryant, L. J.
Bryant, L. J.
Buhl, F., & Son.
Buhl & Hacking.
Cave, R.
Chew, P. W., & Co.
C.O.D.
Chilton, F. Growers' Chew, F. W., & Co.
C.O.D.
Chilton, F.
Clutton, E. J.
Cooper, A. J., Pty. Ltd.
Dundon, F. C.
Ewen & Sons.
Express Fruit Service.
Gibbs, C., & Son.
Gosford Bulk Loading.
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Hawke, J.
Hay Bros.
Hie Lee & Co. Ltd.
Hill, F. W.
Holmes, J., Lid.
Hopkins & Lipscombe.
Hop Lee & Co. Ltd.
Isaaes & Sons.

B.P.B. & Co.
Boot & Carter.
Brailey, H. J.
Chew, P. W., & Co.
Clarke, H. M.
Clarke & Son.
Clarke, R. G.
Clayton, J., & Son.
Clements & Kemp.
C.O.D.
Comino Bros.
Cooke, E.
Cooper, C.
Curtis, W. J.
Dening Bros. Dening Bros.
Dickson, H.
Dunstan & Norris.
Evans, E.
Farley, J. Fong, Sue & Co. Gray, G.

nd Vegetable In

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Lockart, H. C.

Locke, L. T.

Martin & Co.

Mason, A., & Co.

Mason, A., & Co.

Mason, J. J.

Mitchell & Hall.

Mitchell & Hall.

Mitchell & Lawless.

Moore & Lloyd.

Moss, J., & Sons

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N. & A. Fruit & Produce

Co.

Palmissano Bros.

Paterson & Co. Ltd.

Picone, F.

Producers' Co-op. Scty.

Ltd.

Quigley, E.

Radley's Auctions

Reedy Bros.

Regers, F. H. G.

Reedy Bros.
Rogers, F. H. G.
Roughley, Oliver.
Salmon, F. J., & Co. Ltd.
Salter Bros.
Sandrin, A.
Scarmuzzi, C.

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Greenberg, S. & M.
Greentree, C. C. & Son.
Hanigan & Drane.
Hawke, J.
Hie Lee & Co. Ltd.
Isaacs & Sons
Johnston & Tebbutt. Johnston & Tebbutt.
Leedow, A.
Locke, L. T.
Messent & Gauld.
Mitchell & Galvin.
Mitchell, T. S.
Molesworth, G. H.
Montgomery & Son
Moss, A.
Moss, J., & Son.
Parker, E. W., & Son.
Paull, W. J.
Peters, S. A.
Producers' Co-op. Scty.

P. S. MACDERMOTT, General Secretary, 215a Thomas St., Haymarket, Sydney.

Schuster, A. E.
Silk Bros.
Sinclair, W. J.
Slater, J., Pty. Ltd.
Southcott, W. H.
Spurway, E. A.
Stanton, E. T.
Stassi, G.
Stevens, F. G., & Sons.
Sun Lee & Co.
Sunnyside Orchards
Pty. Ltd.

Terrey, A. Terrey, J. Trathen & Hall. Turnbull, D. C.

Turnbull, D. C.
Valentine, A. B.
Valentine, R., & Son.
Vince. L. L.
Waddeli, A. W.
Walker, A. H., & Son.
Walters, M., & Co.
Ward & Felton.
Watkins & Evans.
Wilson Bros.
Wilson, Herbert.
Wing Chong & Co. Ltd.
Wing On & Co. Ltd.
Wing Sang & Co.
Wing Tiy & Co.
Woodward, H. P.
Yick, S., & Co. Yick, S., & Co. Yocksul Bros.

Reedy Bros.
Rhodes, S. J.
Salter Bros.
Sandrin, A.
Silk Bros.
Small, E. A.
Southcott, W. H.
Stevens, F. G., & Sons.
Sun Lee & Co.
Terrill, R. A.
Thompson & Smith.
Valentine, A. B.
Wade, E. M.
Watson, R. B.
Wing Bros.
Wing Bros.
Wing Sang & Co.
Ltd.
Wing Sang & Co.
Woods, W. O.
Yick, S. & Co.
Yocksul Bros.

POWER ALCOHOL FROM SUGAR.

The Queensland Cane Growers' Council says that the present petrol shortage can be assisted by producing power alcohol from sugar cane products as well as from wheat and other plant products. Sugars can be transformed into alcohol by fermentation of cane products not otherwise economical to process, also that it is possible to produce as high as 60 gals, pure alcohol per ton of molasses by-products of which Queensland produces some 20 million gallons per

The method adopted is fermentation followed by distillation and the Colonial Sugar Refinery's distillery at Sarnia was erected in 1926 under authority of the State Government. Plants at Melbourne and Sydney were erected in 1938, and all have since produced what is claimed to be a high-grade quality power alcohol.

GUARD AGAINST FIRE WHEN FILLING PETROL TANKS.

Petrol rationing has caused more drawing of supplies from tins and drums, and a warning is due against carelessness when filling. Some drivers foolishly smoke when doing jobs around a car, and petrol leaks can become the more dangerous.

The flow of petrol from the container can create static electricity which will store up in the tin, or measure. Under certain conditions this current may jump to the end of the petrol tank filler, with a possibility of igniting the petrol, and a serious fire may result.

To guard against such an accident, the container from which the petrol is being poured should be kept in direct metallic contact with the filler pipe whilst the petrol is being poured.

If the petrol is poured from a container into a funnel fitted in the filler pipe, the container should be kept in contact with the funnel, and the funnel in contact with the filler pipe. If poured direct from a container into the filler pipe the container should be kept in contact with the edge of the filler pipe.

MARKET NOTES—(Continued).

Persimmons: 2/- to 5/- half

Oranges: Val., coastal 3/- to 8/-, Irrig. Area 5/- to 10/- (few higher).

Lemons: Coastal 5/- to 12/-, Q'land. 14/- to 18/-.

Quinces: 6/- to 7/6 bushel

Bananas: Nines and eights 11/- to 13/-, specials to 15/-, sevens 10/- to 12/-, sixes 8/to 10/- (ripe and inferior lower).

Rock Melons (Irrig. Area): 4/- to 6/-, few 7/-.

Pineapples: 5/- to 10/- trop. case.

VICTORIA.

Melbourne (4/3/41): Wholesale Fruit Merchants' Association quotations (case):—Apples, eating, 4/-, 6/-, choice higher; cooking, 3/-, 4/-, few higher; Bananas, 7/, 11/-, few higher; Grapefruit, 9/-, 16/-, selected higher; Grapes, 5/-, 10/-, few higher; Lemons, 8/-, 16/-, selected higher; Oranges, 6/-, 12/-, selected higher; Passionselected higher; Oranges, 6/-, 12/-, selected higher; Passion-fruit, a half case, 2/-, 5/-, a few higher; Pineapples, 8/-, 11/-, few higher; Peaches, ripe, 2/6, 6/-, few higher; Tomatoes, local, 2/6, 6/- per case, few higher; Plums, 2/-, 4/-; Pears, 4/-, 6/-; Cantaloupes, 2/-, 5/-, few higher.

SOUTH AUSTRALIA.

Adelaide: The S.A. Fruit-growers' and Market Gardeners' Assn. Inc. report under date March 1 as follows:-

Vegetables cleared well on Friday's markets, with Beans and Peas in stronger demand, the price for the latter lines being advanced. Other vegetable quotes were unchanged.

Fruit also had a steady demand, but with the exception of an increase in the quote for white flesh Peaches quotes were unchanged. Water Melons had a firmer demand.

The under-mentioned quotes are for f.a.q.

The under-mentioned quotes are for f.a.q.

Vegetables: Beans (French), 3/-, 4/- doz. lbs.; Beetroot, 1/6 doz.; Cabbages, large 5/-, 6/- doz., medium 4/-, small 2/6, 3/-; Carrots, 2/6 doz. bchs.; Cucumbers, 8/- case; Lettuces, 1/6 doz.; Onions, 12/- cwt.; Parsnips, 2/- doz. bchs.; Peas, 9/-, specials to 10/- bushel; Potatoes, 8/-, 9/- cwt.; Rhubarb, Cherry, 1/- doz. lbs.; Tomatoes, firsts, 4/- to 5/- ½ case; Trombones, 5/- cwt.; Turnips, 2/- doz. bchs., Swede 2/6 doz. bchs.; Triambles, 5/- cwt. (Cases extra.)

Fruit: Oranges (Common), Val. 8/-, 10/-; Lemon, 18/- (special higher) case; Peaches, White Flesh 5/-, Yellow Flesh 3/6; Nectarines, 6/- ½ case; Plums, Japanese 3/-, Prunes 2/6½ case; Grapes, 4/6½ case; Bananas, 20/-, 22/- crate; Pineapples, 11/-, 13/- crate; Melons, Sweet 14/- cwt., Water, 10/- cwt.

Fruit Merchants and Exporters of South Australia

When Consigning to ADELAIDE MARKET, try-

Earle S. Caldicott FRESH FRUIT SPECIALIST

Interstate Representative, Exporter & Commission Agent

Communicate: Box 970 H, G.P.O., Adelaide. Phone: C 2882. After Hours, L 5395. Telegrams: "Caldicotts," Adelaide. Reg.

Growers! Consign your Fruit To

H. C. Austin

Wholesale Fruit and Produce Merchant, General Exporter, Commission Agent, Shipping Providor. Specialty Overseas Export All Countries.

New Market, Union St., Adelaide Phone 0746. G.P.O. Box 722. Telegrams: Austin Prait.

Watch the Perches.

Readers are reminded to watch the perches and houses for mites. Mites differ from for mites. Mites differ from lice in that they do not live on the birds but hide in crevices on the perches or cracks in the building and come out at night to suck the blood from the fowls. The eggs are laid in sheltered cracks and hatch out in four or five days. They multiply quickly in warm weather. Painting the perches with used sump oil from the motor car is recommended as a control measure.

as a control measure.

When not full of blood the mites will appear as greyish white masses. They can lie dormant in the cold weather and appear to come to life when warmer weather comes; in this they differ from lice, which operate throughout the year.

Scaly legs often arise from a mite which burrows into the flesh under the leg scales. It sucks the blood and causes a thickening of the leg. Lard mixed with 6 per cent. carbolic acid should be rubbed on the affected parts; repeat if necessary.

SALT.

Can Be Overdone.

The use of common salt (sodium chloride) is necessary in some form of other for all living creatures. It is the quantity that should be taken that worries some poultrymen. Vegetables, grasses, etc., are commonly thought to contain all the salt that fowls require, but this is not so. Salt is recognised as one of the most important constituents of mineral tant constituents of mineral

Its main uses include an important addition to the food ration and its deficiency leads to general debility, anaemia and a tendency to dropsical conditions. It is also a good application to the soil against eggs of intestinal parasites.

tinal parasites.

The dose generally advised is 1 per cent., or 1 lb. salt to 100 lb. of mash, whilst for the land a solution of half ton salt to the acre is recommended. Care should be taken, however, that too much salt be not given, as 2 lb. to 100 lb. mash is too much, and if 1 lb. is adhered to it should be satisfactory. should be satisfactory

STOPPING SPUR GROWTH.

Treatment of Young Cockerels.

Young cockerels may be treated with potassium hydroxide in order to prevent the development of spurs. This method consists of cutting off the spur cap close to the leg and rubbing the wound with a stick of potassium hydroxide. The proper age for treatment is 10 to 12 weeks for Leghorns, and 14 to 16 weeks for heavier birds, or before the spur cap is more than a quarter of an inch long.

Poultry Notes | The Pig Pen

SHADE FOR PIGS.

DEQUATE SHADE A DEQUATE SHADE for pigs should be provided. The ordinary sty, especially if it has an iron roof, is hot, ally if it has an iron roof, is hot, and some other shade is necessary in the heat of the day. If there are no trees nearby, a wooden shed will answer the purpose. Another important aid to the health and comfort of pigs is a bath in which they can lie in hot weather. To wallow in the mud is the pig's natural method of cooling itself. Unfortunately, the wallow sometimes seen on the pig farm is a filthy puddle-hole. If there is infection of any kind in the yard it is to be found in just such a place. Dirty wallows should be drained and filled in, and a concrete or similar bath provided. crete or similar bath provided. This can then be kept clean, and the liability to infection will be diminished. Comfortable and hygienic conditions are most important in maintaining the health and well-being of pigs.

CLEAN WALLOW NEEDED.

Tests Show Weight Gain.

Experiments conducted in U.S.A. at an Agricultural Research Station showed that pigs provided with a clean wallow gained weight quicker than those without a wallow.

Ten pairs of 90 days. One pig in a test of 90 days. One pig in each pair had access to a concrete wallow, and the other was kept away from it. All pigs were given the same food in individual page.

individual pens.

Average temperature during the Summer months when the test was conducted was 83 deg. Fahr. All pigs had access to shade.

The 10 pigs which had access to the wallow made an average gain of 14 lb. per pig, and required 10 lb. less feed per 100 lb. gain in weight than did similar pigs without access to the

What To Prune For

Study the Tree Itself

to what should be the chief of the pruner's operations, and aim in pruning, the "N.S.W. prevent any rigid rule being laid Agricultural Notes" says that it down. Each tree has its own in-Agricultural Notes" says that it down. Each tree has its own inshould undoubtedly be to prune dividuality, and this individuality the young tree so as to develop a strong, well-shaped frame. In years to come the tree must bear a burden of fruit, and to do this it must be so treated that it will and to accomplish this aim the have sturdy limbs. If limbs are characteristics of each tree must be studied closely.

The Prime Aims. mence cropping whilst the limbs are too fragile to bear the weight of fruit, results may be by pruning may be briefly stated disastrous.

It will be most unsatisfactory and unprofitable to the grower to harvest a crop of fruit from trees if that crop has been produced at the expense of the wellbeing of the tree. If young trees are carefully selected and then sturdily built up, the subsequent cropping must be satisfactory. It is important to observe that if a good framework has been induced, and if the tree is still growing vigorously, it is usually advisable to allow the tree to remain unpruned for a season. This will induce it to crop.

5. Manuemons.
6. Opening up of the central axis of the tree to the influence of warmth and light.
If the pruner keeps the foregoing objects well in mind and the control of the central axis of the tree to the influence of warmth and light.

It scarcely needs urging that the characteristics of any tree must be taken into consideration. It is well known that Peaches bear only on last year's growth and unlike the Apple and the Pear, the trees do not develop fruit-bearing spurs. In old Apple and Pear trees these fruit-bearing spurs sometimes need thinning out to prevent their becoming too crowded.

Factors which influence the growth and development of trees, such as soil, location, character, and influence of stock, manuring, cultivation, and spraying, all play their part in shapes his operations accordingly, he cannot go far wrong.

U.S.A. GOVERNMENT BUYS

PEARS FOR RELIEF

AGENCIES.

The Surplus Marketing Administration of U.S.A., in September bought 400 car-loads of surplus Pears to release to Relief Agencies. It paid 6/- per case for Anjous and 5/- for other varieties. This not only made the fruit available for families on relief but also took a share of the surplus fruit off the marspraying, all play their part in It scarcely needs urging that

N answering the question as deciding the extent and nature

The Prime Aims.

as follows:-

1. The economic working of an orchard in all its branches— cultivation, picking, syraying,

2. The production of good bearing wood.

3. Improvement in appearance of fruit in so far at least as size and color are concerned. 4. Inducement of regular

shapes his operations accordingly, he cannot go far wrong.

SPECIAL NOTICE TO FRUITGROWERS

In response to numerous requests from growers for information as to who are members of the

All Members under Fidelity Bond Wholesale Fruit Merchants' Association of Victoria

the following list is given. All are members of the above Association, and are regimered firms carrying on business in the

WHOLESALE FRUIT MARKET, MELBOURNE.

STAND NUMBERS ARE AS INDICATED IN PARENTHESES.

T. STOTT & SONS PTY. LTD. (26-36).

H. L. E. LOVETT & CO. (23).

A. E. PITT (14). J. DAVIS PTY. LTD. (8).

W. S. TONG (31). SILK BROS. PTY. LTD. (24-25). J. G. MUMFORD (35).

GOLDEN VALLEY FRUIT CO. PTY. LTD.

J. W. ROSS (13). H. M. WADE & CO. (21). DAVID SMITH PTY. LTD. (3). SILBERT SHARP & DAVIES PTY. LTD.

(17). WATKINS FRUIT COMPANY PTY. LTD (5)

G. WOOLF & SONS (29-30).
R. CORNISH & SONS (5).
J. HYMAN & SON (51).
HERBERT WILSON PTY. LTD. (10).
FRANK BOOTH & SONS PTY. LTD. (16).
GEO. LISTER PTY. LTD. (12).
TIM YOUNG & CO. PTY. LTD. (18).
F. W. VEAR PTY. LTD. (28).
YEE HOP LOONG & CO. (32).
H. LOUEY PANG & CO. PTY. LTD. (4).
WING YOUNG & CO. (38).
D. MENTIPLAY & CO. PTY. LTD. (27).
PRICE & KING PTY. LTD. (2).
REGAN & KENNY (Successors to Sweeney). (33).

Office: 21 Wholesale Queen Street, Melbourn

Correspondence is invited by the Association.

Tasmanian News and Notes

Crop Prospects — Acquisition Problems — Apples for Troops -- "Planned Reduction of Crops."

severely this year. They have had frost damage, hail, an abnormal gale, and a long dry spell which, combined, will reduce the crops considerably. Odd orchards that escaped severe damage are carrying nice crops.

Some of the orchards in the Some of the orenards in the Spreyton district have very good crops of clean fruit. The Midlands, where it is usually dry at this time of year, looks very nice and green, as they had two or three heavy thunderstorms.

HE NORTHERN orchards in many places the leaves are have suffered very turning yellow and the fruit is severely this year. They stopping growing.

Codling Moth has been much worse than usual, and Red Spider, favored by the dry spell, is showing up. Cleos. are standing up to the dry spell better than most varieties, and Jonathans are good thans are good.

The Acquisition Committee has called on growers to supply Gravensteins for the local market and Worcester Pearmains for Sydney. I don't think they got as many as expected, because

dication has yet been given as to what varieties or quantities will be wanted later.

Criticism has been expressed at the appointment of a firm as sole dstributors of Apples and Pears in Tasmania.

The single case trade should receive special attention.

There are problems in relation to the wastage of unscheduled varieties.

Apples for Troops.

Apples for Troops.

The State Fruit Board, at its last meeting, passed a resolution recommending that Apples be made available to the Australian troops. In many instances the military trucks could pick it up at the orchards in secondhand cases and save presentation costs.

Planned Reduction of Crops.

and green, as they had two or three heavy thunderstorms.

The southern districts need a good heavy rain immediately, as for Sydney. I don't think they ago as many as expected, because no 2½ in. were accepted, and the good heavy rain immediately, as Gravs. dropped heavily. No inpects of the Australian Apple

and Pear industry recommends or suggests a "Planned contrac-tion of the industry" to meet the changed conditions brought about by the curtailment of ex-ports. It certainly seems to be doubtful wisdom to continue to produce fruit in unsuitable localities at a high cost and then throw it away, and the only way to increase Australia's consumption is to sell more directly and cheaper to the consumer: at present it passes through too many hands on its way from producer to consumer. Hobart, 23/2/41.

Later: Rain just set in.

THE STORAGE OF APPLES.

Common Storage on the Farm.

Under certain circumstance common storage can be a valuable adjunct to cold storage, is claimed by Mr. E. C. Whittaker, Fruit Packing Instructor, N.S.W. Dept of Agriculture. The behaviour of Apples in common storage is related to (1) The natural and inherent keeping qualities of the fruit concerned, (2) Picking at the right stage of development, (3) care in picking and handling, (4) suitable strong facilities, and common storage can be a valu-

(5) prompt cooling.

Common storage, however, should be restricted to those varieties known to keep well, such as Granny Smith, Democrat, Statesman, Dunns, and such as will keep well up to a such as will keep well up to a certain period that precludes wastage and that retain the color wanted by buyers. Those varieties having a greasy skin should be protected from dust and all stored fruit should not be kept longer than a period which allows for the natural ripening process and for the fruit to still reach the consumer in good condition, therefore well before breakdown commences. fore breakdown commences.

Softer varieties such as Jona-Softer varieties such as Jonathan, Delicious, etc., are most unsuitable for common storage. Even under the best conditions, their storage life is very limited, and in their case, cold storage is preferable Mr. Whittaker warns against close stacking of the fruit before it is cooled off and suggests that it should be left unstacked, but under cover overnight to reduce the natural temperature. temperature.

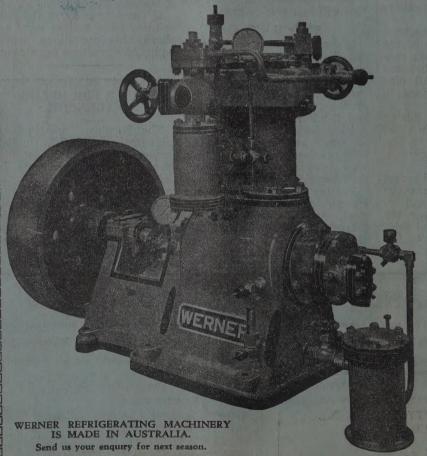
BORON DEFICIENCY.

An experiment in Russia, reported by the Imperial Bureau of Horticulture (Eng.), shows that plants that were given boron with the fertilizer produced higher yields and bore the smallest number of fruits that had not fully developed. The tests were made on Peas and Lentils. The amount of boron needed was reported to be very slight. The application of boron with increased applications of lime interfered with normal seed formation, and induced abortive fruit. abortive fruit.

PLANTS Refrigerate Over 12 Million Cases

Fruit 60 Stores throughout the Commonwealth

We design and Install Plants to Store from 500 Cases upwards



Enclosed Type Ammonia Compressor Suitable for Full Automatic Control

> Direct Expansion Brine Circulation

> > Type of Compressor made by Werner from 10-ton

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